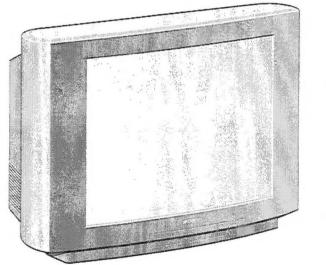
SERVICE MANUAL

BE-3D CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-29C1A	RM-839	Italian	SCC-K05D-A	KV-29C1E	RM-839	Spanish	SCC-K06D-A
KV-29C1B	RM-839	French	SCC-K01D-A	KV-29C1K	RM-839	OIRT	SCC-K08F-A
KV-29C1D	RM-839	AEP	SCC-K07D-A	KV-29C1R	RM-839	OIRT	SCC-K08G-A
KV-29C1D 1	RM-839	AEP	SCC-K07J-A				







ITEM MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	VHF: E2-E12, S1-S20, A-H, H1,H2 UHF: E21-E69	PAL NTSC3.58/4.43 (video input only)
French	B/G/H, D/K, L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H, D/K	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R20 UHF: B21-B69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, S42-S46	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	29C1A	29C1B	29C1D 29C1D 1	29C1E	29C1K 29C1R
Power Consumption	85W	95W	95W	95W	95W

SPECIFICATIONS

Picture Tube

Super Trinitron

Approx. 72 cm (29 inches)

(Approx. 68 cm picture measured

diagonally)
110° -deflection

Rear/Front Terminals

[REAR]

1 21-pin Euro connector (CENELEC standard)

- Inputs for audio / video signals

Inputs for RGB

- Outputs for TV audio and video signals

2/ 3 2, 21-pin Euro connector (CENELEC standard)

- Inputs for audio / video signals

Inputs for S video

- Outputs for TV audio and video signals (selectable)

[FRONT]

3. Video input - phono jack

3 . Audio inputs - phono jacks

3, S video input - 4 pin DIN

(KV-29C1D 1 does not have € 3, € 3 or € 3)

Stereo minijack - headphone jack

Sound output

Left/Right 2x5W (RMS)

2x10W (music power)

Dimensions

794x567x533 mm approx.

Weight Supplied accessories

Approx. 43.0 kg RM-839 Remote Commander (1)

Batteries R6 (2)

Other features

Fastext, TOPTEXT

[RM-839]

Remote control system

Infrared control

Power requirements

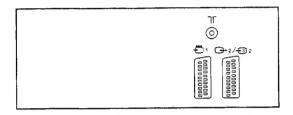
3V dc (2 batteries) R6 (size AA) Approx. 210x45x24 mm (w/h/d)

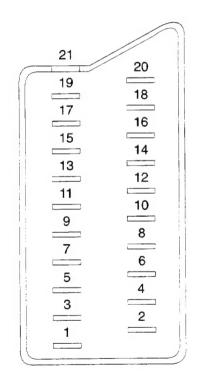
Dimensions Weight

Approx. 91g (Not including battery)

Design and specifications are subject to change without notice.

Model name	KV-29C1A	KV-29C1B	KV-29C1D	KV-29C1D 1	KV-29C1E	KV-29C1K KV-29C1R
Item						
PIP	OFF	OFF	OFF	OFF	OFF	OFF
MPIP	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	OFF	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
TXT	ON	ON	ON	ON	ON	ON
FLOF	ON	ON	ON	ON	ON	ON
TOP	ON	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF	OFF
Norm D/K	OFF	ON	ON	ON	ON	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	German	Spanish	OIRT





Pin No.	1	2	4	Signal	Signal Level			
1	0	0	0	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*			
2	0	0	0	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*			
3	0	0	0	Audio output A (Left)				
4	0	0	0	Ground (Audio)				
5	0	0	0	Ground (Blue)				
6	0	0	0	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k chm*			
7	0	•	•	Blue input	$0.7 \pm 3 \text{dB}$, 75 ohms, positive			
8	0	0	0	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF			
9	0	0	0	Ground (Green)				
10	0	0	0	Open				
11	0	•	•	Green	Green			
12	0	0	0	Open	Open			
13	0	0	0	Ground (Red)				
14	0	0	0	Ground (Blanking)				
	0	-	-	Red input	$0.7 \pm 3 dB$, 75 ohms, positive			
15	-	0	0	(S signal) croma input	0.7 ± 3dB. 75 ohms, positive			
16	0	•	•	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms			
17	0	0	0	Ground (Video output)				
18	0	0	0	Ground (Video input)				
19	0	0	0	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)			
20	0	-	-	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)			
20	-	0	0	Video input Y (S signal)	1V ± 3dB. 75ohms, positive sync : 0.3V (-3 + 10dB)			
21	0	0	0	Common ground (plug, sheild)				

O Connected Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	$1V \pm 3 dB 75$ ohm, positive Sync. $0.3V -3 + 10 dB$
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

	000		† □ P	0	0
((a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		⊕ -	_		

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

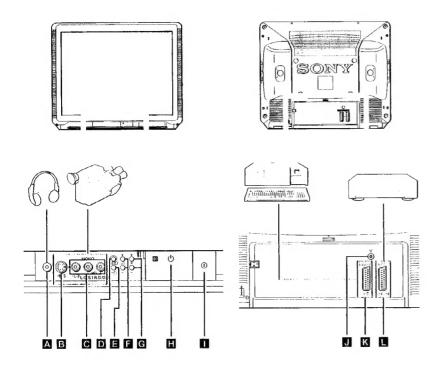
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

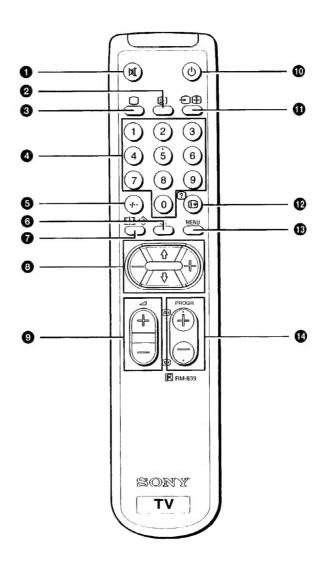
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE À SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.





6

Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV buttons and Terminals

Reference and Symbol	Name	Refer to Page
Front of the set		
ΑΩ	Headphones jack	4
B − ⑤ 3	S video input jack	29
C → 3, → 3	Audio/video input jacks	29
D 🗪	Automatic Preset button	11
E 🕣	Input mode button	13
F ⊿+/-	Volume control	12
G P+/-	Programme button	12
н Ф	Standby mode indicator	12
• •	Main power switch	12
Rear of the set		
J	Aerial socket	10
K -Ö1	21 pin Euro connector	29
□	21 pin Euro connector	29

Overview

Remote Commander Operation

Reference a	and Symbol	Name	Refer to Page
0 %		Muting on/off button	12
2 🗐		Teletext button	13
9 O		TV power on/TV mode button	12, 13
4 1, 2,	9, 0	Number buttons	12
6 -/		Double digit entering button	12
6 OK		OK (Confirmation) button	14
0 ⊞/€	>	Screen format button Teletext: Favourite pages button	12, 28
o (((Menu control	14
9 ⊿+/-		Volume control button	12
o 0		Standby button	12
① → 1/⊕		Input mode button Teletext: Freezing the subpage	13, 27
1 •/?		On-screen display button Teletext: reveal button	12, 27
MENU		Menu on/off button	14
1 PROGI	R +/-	Programme buttons Teletext: Page up/page down buttons	12, 13

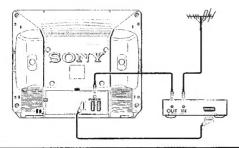
Insert the aerial plug tightly into the aerial socket \(\partial\). Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

Step 2

Connecting a VCR

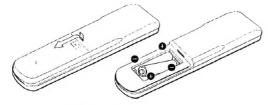
We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 16.

See "Connecting Optional Equipment" on page 29 for more information.



Step 3

Inserting the Batteries Into the **Remote Commander**



Respect your environment! Dispose of used batteries in an environmentally friendly way.

Step 4

Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to "Presetting Channels Manually" on page

1 Plug into mains. Press the power switch ① **II** on the TV set.

2 Press and hold the button 🖭 🗖 on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows;

KV-25X1U/29X1U	KV-25X1L/29X1L
Programme 1 BBC1	Programme 1 RTE1
Programme 2 BBC2	Programme 2 RTE2
Programme 3 ITV	Programme 3 BBC1
Programme 4 CH4 or S4C	Programme 4 BBC2
	Programme 5 ITV
	Programme 6 CH4 or S4C

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

TV Operation

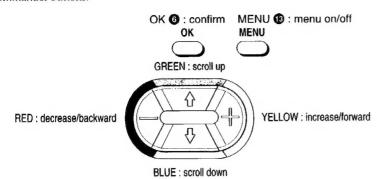
То	Press
Switch on	① 🚺 on TV
Switch off temporarily	少 ⑥ TV is now in standby mode and 少 H indicator on TV lights up.
Switch on from standby mode	□ ③, PROGR +/- ❹ G or any number button ④.
Switch off completely	① 1 on TV To save energy, switch off your TV completely when TV is not in use.
Select programmes	PROGR +/- 4 G or number buttons 4 For double digit number, press -/ 5 then the number e.g. For 23, press -/ 5 then 2 and 3.
Display on screen indications	(1) (2). Press again to make the indications disappear.
Adjust the volume	∠ + or - 9 F
Mute the sound	* • Press again to restore the sound.
View programmes in 16:9 mode	₽ ? Press again to return to 4:3 mode.

То	Press
View video input picture (see page 30 for detailed information)	② ① ■ repeatedly until the desired video input appears. Press ○ ③ to restore the TV picture.
View teletext (see page 27 for detailed information)	
Switch on	⊜ @
Select a page	three number buttons ② or ② ③ (for next page) or ③ ④ (for previous page).
Use fastext	Blue, Green, Red or Yellow 3.
Switch off	○ 3

10

Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:



Choosing the Menu Language

This function enables you to change the language of the menu screens.

- Press power switch ① 11 on the TV. If the standby indicator U H on the TV is lit, press 🔾 3 or a number button 4 on the Remote Commander.
- Press the MENU button 13 on the remote commander.

■ ENGLISH DEUTSCH FRANÇAIS ITALIANO.

LANGUAGE

NEDERLANDS POLSKI ČESKY MAGYAR

- **3** Press blue or green **3** to select the language you want then press yellow **3**.
- 4 Press the MENU button 13 to restore the normal TV picture.

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 11. You can also preset channels automatically by using the remote commander as follows:

- Press the MENU button 13.
- 2 Press blue or green 6 to select the symbol 🖹 on the menu screen then press yellow 8

- m PRESET AUTO PROGRAMME MANUAL PROGRAMME AV LABEL PRESET PROGRAMME SORTING PARENTAL LOCK LANGUAGE PICTURE ROTATION [00]
- **3** Press blue or green **3** to select 'AUTO PROGRAMME'.
- 4 Press and hold yellow 8 until the automatic menu is displayed and the search starts.

After all available channels have been preset, the normal TV picture is shown. **AUTO PROGRAMME**

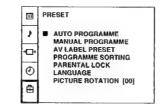
PROG SYS CH LABEL 01 B/G C25 -----01000000 -----

15

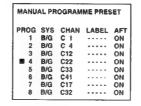
Presetting Channels Manually

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

- 1 Press the MENU button (B.
- Press blue or green ③ to select the symbol ⊡ on the menu screen then press yellow ③.



Press blue or green 3 to select 'MANUAL PROGRAMME' then press yellow 3.



- 4 Press blue or green 3 to select on which programme number you want to preset a channel then press yellow 3.
- Press blue or green 1 to select the TV broadcast system 'I' or a video input source (AV1,AV2 ...) then press yellow 1.
- This step 6 is only for KV-25X1L/29X1L)

 Press blue or green to select 'C' (for terrestrial channels) or 'S' (for cable channels) then press yellow .
- 7 Select the first number digit of 'CHAN' then the second number digit of 'CHAN' with the number buttons ② on the remote commander or Press blue or green ③ to search for the next available channel number.

- 8 If you want to store the channel number, go to step 9. If not, select a new channel number using the number buttons 4 on the remote commander or press blue or green 4 to resume the search.
- 9 Press OK **6**.
- **10** Repeat steps 4 to 9 to preset other channels.
- 1 Press the MENU button 19 to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

Press the MENU button (8).

Press blue or green to select for picture control or 1 for sound control then press yellow 8.

• • • • • • • • • • • • • • • • • • •	SOUND CONTROL TREBLE BASS BALANCE RESET SPATIAL DUAL SOUND VOLUME OFFSET O VOLUME DUAL SOUND			PICTURE CONTROL CONTRAST BRIGHTNESS COLOUR SHARPNESS HUE RESET	1910 1910 1010 1010 1010	
---------------------------------------	---	--	--	---	--------------------------------------	--

3 Press blue or green **3** to select the desired item then press yellow **3**.

Press red or yellow 8 to alter the item then press OK 6. For the effect of each control, see the following tables.

Repeat steps 3 and 4 to adjust the other items.

6 Press the MENU button 18 to restore the normal TV picture.

PICTURE CONTROL Effect Lower — I — Higher Contrast Darker ----- Brighter Brightness Less ---- More Colour Softer — I — Sharper Sharpness Greenish —— Reddish (NTSC signals only) Hue Resets picture to the factory preset levels. Reset

Adjusting the Picture and Sound (continued)

SOUND CONTROL	Effect		
Treble	Less ——I —— More		
Bass	Less —— I —— More		
Balance	Left Right		
Reset	Resets sound to the factory preset levels.		
Spatial	Acoustic sound effect.		
Dual Sound	A: Left channel —> B: Right channel —> stereo —> mono		
Volume Offset	Presets the volume level for individual programmes.		
	-12 0 +12		
∩ Volume	Adjusts the headphone volume.		
∩ Dual Sound	Presets the headphone channels.		
	A: Left channel> B: Right channel> stereo> mono		

Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is operating. If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

- 1 Press the MENU button 13.
- 2 Press blue or green 3 to select the symbol an the menu screen then press yellow 3.
- Press blue or green to select 'MANUAL PROGRAMME' then press yellow .

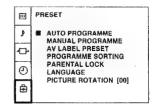
PROG	SYS	CHAN	LABEL	AF
1	B/G	C 1		ON
2	B/G	C 4		ON
3	B/G	C12		ON
■ 4	B/G	C22		ON
5	B/G	C33		ON
6	B/G	C41		ON
7	B/G	C17		ON
8	B/G	C32		ON

- 4 Press blue or green 3 to select the programme number which corresponds to the channel you want to manually fine-tune.
- **5** Press yellow **6** repeatedly until the AFT position changes colour.
- **6** Press blue or green **3** to change the frequency of the channel from -15 to +15.
- 7 Press OK 6
- **8** Repeat steps 4 to 7 to fine-tune other channels.
- **9** Press the MENU button **(B)** to restore the normal TV picture.

Sorting Programme Positions

This function enables you to move channels to different programme numbers.

- 1 Press the MENU button 13.
- Press blue or green 3 to select the symbol and on the menu screen then press yellow 3.
- Press blue or green to select 'PROGRAMME SORTING' then press yellow 3.



Press blue or green 3 to select the channel you want to move to another programme number then press yellow 3.

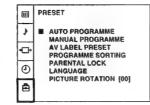
PROGRAMME SORTING				
PROG	SYS	CHAN	LABEL	
= 1	B/G	C23	BBC - 1	
2	B/G	C26	RTL	
3	B/G	C29	VHS - 1	
4	B/G	C31	ZDF	
5	B/G	C44	ITV	
6	B/G	C14	SKY	
7	B/G	C15	SAT - 1	
8	B/G	C16	BBC - 2	

- **5** Press blue or green **3** to select the programme number to which you want to move the channel selected in step 4 then press yellow **3**.
- **6** Repeat steps 4 to 5 if you wish to move other channels to different programme numbers.
- **7** Press the MENU button **1** to restore the normal TV picture.

Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press the MENU button (B.
- Press blue or green
 to select the symbol
 on the menu screen then press yellow
 .
- Press blue or green to select 'PARENTAL LOCK' then press yellow .



4 Press blue or green 10 to select the channel you want to block then press yellow 10.

The symbol appears before the programme number to indicate that this channel is now blocked.

PARENTAL LOCK				
PROG	sys	CHAN	LABEL	
III 1	B/G	C23	BBC - 1	
2	B/G	C26	RTL	
3	B/G	C29	VHS - 1	
4	B/G	C31	ZDF	
5	B/G	C44	ITV	
6	B/G	C14	SKY	
7	B/G	C15	SAT - 1	
8	B/G	C16	BBC - 2	

- **5** Repeat step 4 if you wish to block other channels.
- 6 Press the MENU button 19 to restore the normal TV picture.

Note: To unblock, press yellow ② after selecting the channel to unblock in the 'PARENTAL LOCK' menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

- 1 Press the MENU button (8).
- Press blue or green to select the symbol on the menu screen then press yellow .
- **3** Press yellow **3**.
- 4 Press red or yellow 3 to set time delay and press OK 5

OFF 0:30 1:00 1:30 3:30 4:00

One minute before the TV switches into standby mode, a message is displayed on the screen.

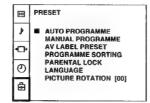
5 Press the MENU button **6** to restore the normal TV picture.

Adjusting the Picture Rotation

If, due to the earth magnetism, the picture slants, you can use the function 'Picture Rotation' to readjust the picture.

1 Press the MENU button 19

Press blue or green **3**to select the symbol **□** on the menu screen then press yellow **3**.



3 Press blue or green 3 to select 'PICTURE ROTATION' then press yellow 3.

4 Press red or yellow 3 to adjust the picture rotation then press OK 6. The adjusting range is -5 to +5.

5 Press the MENU button **®** to restore the normal TV picture.

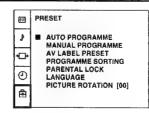
Skipping Programme Positions

This function enables you to skip unused channels when selecting programme numbers with the PROGR+/- buttons. However, you can still watch the skipped channel(s) by using the number buttons.

1 Press the MENU button 13.

2 Press blue or green ③ to select the symbol ➡ on the menu screen then press yellow ⑤.

Press blue or green to select 'MANUAL PROGRAMME' then press yellow .



4 Press blue or green 3 to select the channel you want to skip then press yellow 3.

Fress blue or green until '---' appears in the 'SYS' position.

MANUAL PROGRAMME PRESET

PROG SYS CHAN LABEL AFT
1 B/G C 1 ---- ON
2 B/G C 4 --- ON
3 B/G C12 --- ON
4 ---- C22 --- ON
6 B/G C33 --- ON
6 B/G C41 --- ON
7 B/G C17 --- ON
8 B/G C32 --- ON

6 Press OK 6.

7 Repeat steps 4 to 6 to skip other channels.

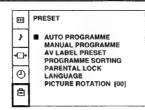
Press the MENU button 18 to restore the normal TV picture.

- 16 -

Captioning a Station Name

Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

- 1 Press the MENU button 13.
- 2 Press blue or green **3** to select the symbol **□** on the menu screen then press yellow **3**.
- Press blue or green **3** to select 'MANUAL PROGRAMME' then press yellow **3**.



- 4 Press blue or green 10 to select the channel you wish to caption then press yellow 13 repeatedly until the first element of the 'LABEL' position is highlighted.
- Press blue or green to select a letter or number and press yellow (select '-' for a blank). Select other characters in the same way.

MANU	AL PR	OGRAN	IME PRES	SET
PROG	SYS	CHAN	LABEL	AFT
1	B/G	C 1		ON
2	B/G	C 4		ON
3	B/G	C12	30000	ON
4	B/G	C22	-`A	ON
5	B/G	C33	11	ON
6	B/G	C41		ON
7	B/G	C17		ON
8	B/G	C32		ON

- **6** After selecting all the characters, press OK **6**.
- **7** Repeat steps 4 to 6 to caption names for other channels.
- 8 Press the MENU button 19 to restore the normal TV screen.

Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service.

Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

Switching Teletext On and Off

- 1 Select the channel which carries the teletext service you wish to view.
- 2 Press (a) to display teletext.

 If no teletext signal is broadcast, the indication P100 is displayed on a black screen
- 3 Input three digits for the page number using the number buttons 4. The page counter searches for the page and after some seconds the page is displayed.
- 4 Press 1 to return to the normal TV picture.

Using Other Teletext Functions

То	Press		
Access the next or preceding teletext page	(a) (b) for the next page or (b) (f) for the preceding page		
Mix the mode	when in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display.		
Freeze a teletext subpage	① Press once again to cancel.		
Reveal hidden information (eg: answers to a quiz)	? ② . Press once again to cancel		

Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

- 1 Use the number buttons 4 to select the page you would like to store.
- 2 Press 较 7 twice. The colour prompts at the bottom of the screen flash.
- 3 Press red, green, blue or yellow to store the selected page. The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

- 1 Press ↔ 🕢.
- 2 Press blue, green, red or yellow to select the desired page.

Make sure you press • To otherwise the normal Fastext facility operates.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue colours on the Remote Commander.

Press the Remote Commander colour button that corresponds to the colour-coded menu. The selected page is displayed after some seconds.

Optional Equipment

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

Symbol	Acceptable input signals	Available output signals
-Ð 3, -Ð 3 B -Ð 3 C	Normal audio/video and S video	No output
-Ö1 K	Normal audio/video and RGB	Audio/video from TV tuner
G→ 2/G→ 2 L	Normal audio/video and S video	Audio/video from selected source

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

If the picture or sound is distorted, move the VCR away from the TV.

When connecting a monaural VCR, connect only the white jack to both the TV and VCR.

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Selecting Input and Output Signals

Selecting With Direct Access Buttons

Press Đ 🚯 🖪 repeatedly.

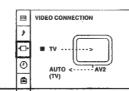
Press

3 to restore the normal TV picture.

Symbol on the screen	Input Signal
⊕ 1 -Ö ⊕ 2 -⊕ 2 -⊕ 3 -⊕ 3	Audio/video through Euro AV connector K RGB through Euro AV connector K Audio/video through Euro AV connector S video through Euro AV connector Audio/video through the phono jacks S video through the phono jacks S

Selecting With the Video Connection Menu

- 1 Press the MENU button 18.
- Press blue or green **3** to select →□→ for "VIDEO CONNECTION" then press yellow **3**.



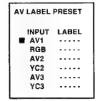
- 3 Press blue or green to select input or output then press yellow 6
- 4 Press blue or green repeatedly to select the desired input or output source then press OK 6.
- **5** Press the MENU button **8** to restore the normal TV picture.

Note: If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

Using AV Label Preset

This function enables you to label the input sources using up to five characters (letters or numbers).

- 1 Press the MENU button 13.
- 2 Press blue or green 1 to select the symbol 1 on the screen then press yellow 1.
- Press blue or green to select 'AV LABEL PRESET' then press yellow .



- 4 Press blue or green 3 to select the desired input source then press yellow 3.
- 5 Press blue or green 3 to select a letter or number then press yellow 3 (select '-' for a blank).
 Select other characters in the same way.
- **6** After selecting all the characters, press OK **6**.
- **7** Repeat steps 4 to 6 to label other input sources.
- **8** Press the MENU button **10** to restore the normal TV screen.

Troubleshooting

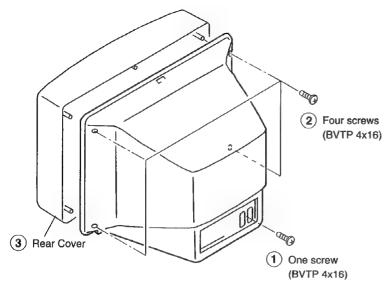
Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	 Plug the TV in. Press ① ■ on the TV. (If ७ indicator ℍ is on, press ○ ③ or a programme number ④ on the Remote Commander.) Check the aerial connection. Check if the selected video source is on. Turn the TV off for 3 or 4 seconds then turn it on again using ① ■.
Poor or no picture (screen is dark), but good sound	 Press MENU
Poor picture quality when watching an RGB video source.	• Press → ① E repeatedly to select → Ö.
Good picture but no sound	 Press ∠1 + ② ■. If □% is displayed on the screen, press □% ●
No colour for colour programmes	• Press MENU 19 to enter the 'PICTURE CONTROL' menu, select 'Reset' then press OK 16.
Remote Commander does not function.	• Replace the batteries.

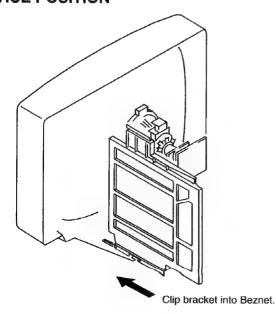
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

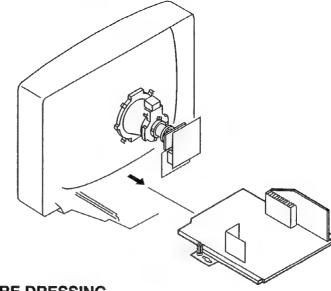
2-1. REAR COVER REMOVAL



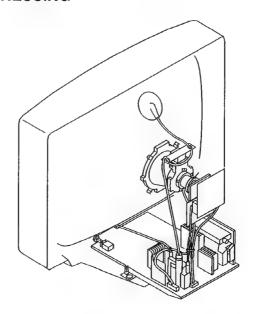
2-3. SERVICE POSITION



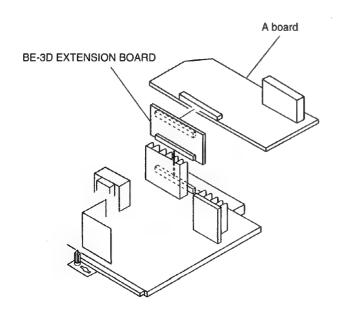
2-2. CHASSIS ASSY REMOVAL



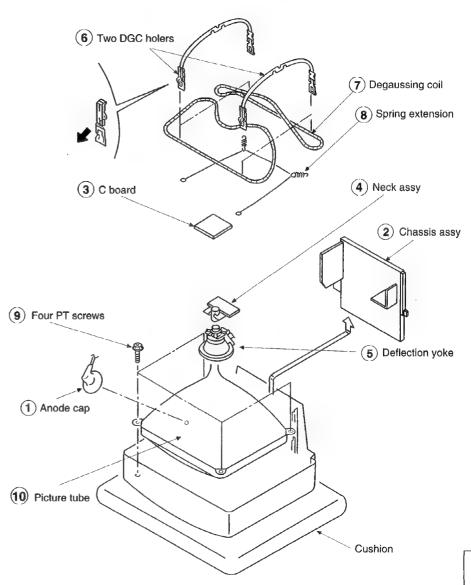
2-4. WIRE DRESSING



2-6. EXTENSION BOARD



2-7. PICTURE TUBE REMOVAL

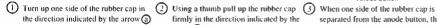


REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

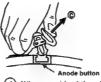
. REMOVING PROCEDURES.







firmly in the direction indicated by the arrow (b)



separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

HOW TO HANDLE AN ANODE-CAP

- Don't damage the surface of anode-cap with sharp shaped material!
 Don't press the rubber hardly not to hurt inside of anode-caps!
- A metal fitting called as shatter-hook terminal is built into the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings:

Contrast	• • • • • • • • • • • • • • • • • • • •	80%	(or remote control
		norma	ıl)
& Brightness		50%	

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required.

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input the white signal with the pattern generator.
 CONTRAST normal
- 2. Position neck assy as shown in Fig.3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke forward and adjust with the purity control so that the red is at the centre and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 3-3)
- 5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners. use a magnet to adjust it. (See Fig. 3-4)

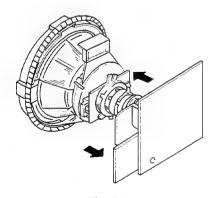
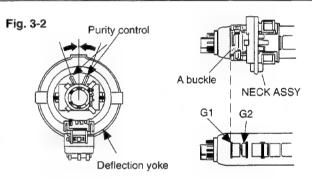
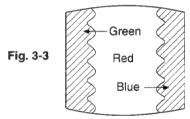
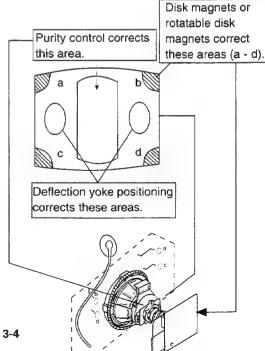


Fig. 3-1





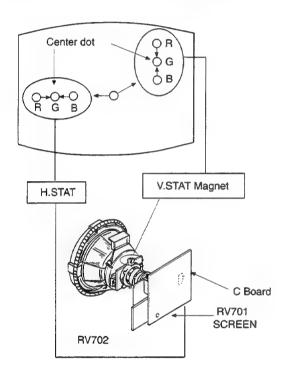


3-2. CONVERGENCE

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

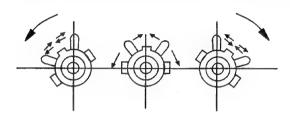


- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the centre of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.

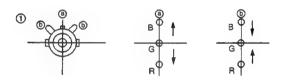
 (In this case, the H.STAT variable resistor and the

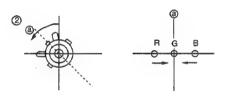
V.STAT magnet influence each other)

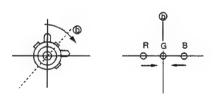
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

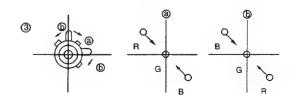


4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.

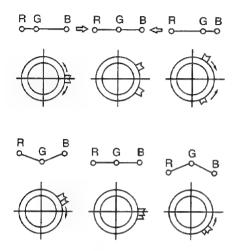




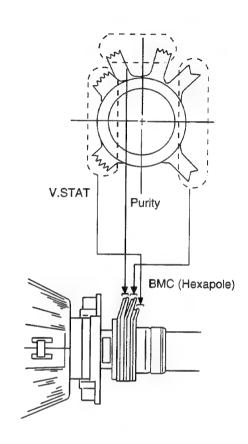




• Operation of BMC (Hexapole) Magnet



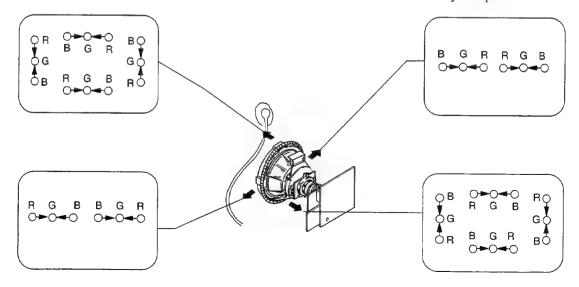
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the centre of the screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment.

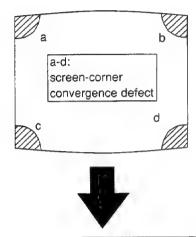
Preparation:

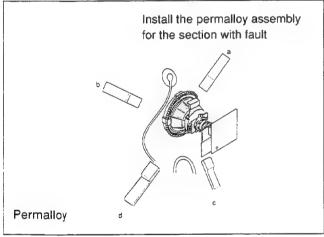
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.
- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Re-install the deflection yoke spacer.



(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.





3-3. WHITE BALANCE

G2 Setting

- 1. Switch the set into AV mode (apply no signal to the AV connectors).
- 2. Connect a Volt Meter to Test Point 1 on the A board.
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

White balance adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the service mode.
- 3. Enter into Picture Adjustment service menu.
- 4. Select sub-contrast and adjust to 7.
- 5. Select the Green Drive and adjust so that the white balance becomes optimum.
- 6. Select the Blue Drive and adjust so that the white balance becomes optimum.
- 7. Press the TV button to return to TV operation.

PICTURE ADJUSTMENT		
AFC mode	1	
REF position	2	
SCP BGR	1	
SCP BGF	1	
Trap Fo	0	
Sub contrast	Adj	
Sub colour	Adj	
Sub brightness	Adj	
Sub hue	Adj	
Green drive	Adj	
Blue drive	Adj	
Green cutoff	Adj	
Blue cutoff	Adj	
Gamma	0	
Pre / overshoot	0	
Y delay	3	

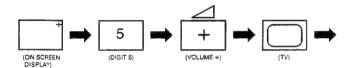
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-839.

HOW TO ENTER INTO SERVICE MODE

- 1. Turn on the main power switch of the set and enter into standby mode.
- 2. Press the following sequence of buttons on the Remote Commander.



"TT--" will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press MENU on the commander to obtain the following menu on the screen.

TEST MENU

> Picture adjustment
Geometry
Wide
MSP
IC status
Current TV status

- 4. Move to the corresponding adjustment using the button on the commander.
- 5. Press the + button to enter the selected adjustment.
- 6. Turn off the power to quit the service mode when adjustments are completed.

PICTURE ADJUSTMENT	
AFC mode	1
REF position	3
SCP BGR	1
SCP BGF	1
Trap Fo	7
Sub contrast	Adj
Sub colour	Adj
Sub brightness	Adj
Sub hue	Adj
Green drive	Adj
Blue drive	Adj
Green cutoff	Adj
Blue cutoff	Adj
Gamma	0
Pre / overshoot	0
Y delay	5

GEOMETRY ADJUSTME	NT
V Size	Adj
V Position	Adj
S Correction	Adj
V Linearity	Adj
H Size	Adj
H Position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	Adj
EHT H	Adj
Corner Pin	Adj

WIDE	
V Aspect	43
V Scroll	31
Upper V Lin	0
Lower V Lin	0
Left Blanking	1
Right Blanking	11

MSF)	
	AGC ON/OFF	ON
	Constant gain CDB	0
	FM prescale FMP	36
	Zwei mono-st WHI	36
	Zwei st-mono WLO	18
	Zwei mono-bi WMH	36
	Zwei bi-mono WLO	18
	Time zwei WML	41
	Fawct limit	10
	Fawct soll init FAW	12
	Fawer tol	2
	Nicam Err Max CCT	10
	Nicam Err Min	0
	Nicam Prescale NIP	97
	Time Nicam	31
	Carrier mute CRM	OFF
	Audio clock ACO	HIZ
	Scart prescale	25
	Scart volume	64

IC STATUS (CXA2000	/ CXA2040)
CXA2000	
H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	3
CV1 Sync	1
CXA2040	
Sync sep	1
S1 mode pin	01
S2 mode pin	01
TUNER	
Tuner status	01101011

TV STATUS	
Text system	C TEXT/TV TEXT
Dolby	NO/YES
Text language set	WEST/EAST/RUSSIAN
Menu language set	WEST/EAST/RUSSIAN
Destination	B/D/U/K/L/E/A/R
Scart 16:9	OFF/ON
RGB priority	OFF/ON
Ageing	OFF/ON
Size	29/25
Colour trap sw	SECAM/ALL
Velocity mod	ON/OFF
AFT STATUS	WINDOW/HIGH/LOW

SUB BRIGHTNESS ADJUSTMENT

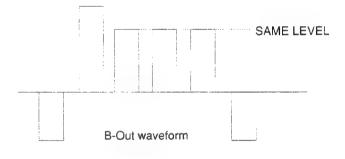
- 1. Input a Phillips pattern.
- 2. Set the picture control to minimum.
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the Sub-Brightness data so that there is barely a difference between the 0 IRE and 10 IRE signal.

SUB CONTRAST ADJUSTMENT

- 1. Input a video that contains a small 100% area on a black background.
- 2. Set the picture control to maximum.
- 3. Connect an oscilloscope to pin 3 of CN301 (A board).
- 4. Enter into the Picture Adjustment Service Menu.
- 5. Adjust the Sub-contrast data to obtain a black to white amplitude of 2.50 volts.

SUB COLOUR ADJUSTMENT

- 1. Receive a PAL Colour Bar video signal.
- 2. Connect an oscilloscope to pin 3 of CN301 (A board).
- 3. Enter into the Picture Adjustment Service Menu.
- 4. Adjust the sub colour data so that cyan, magenta and blue colour bars are of equal height.



NOTE: The data shown in the TV STATUS table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

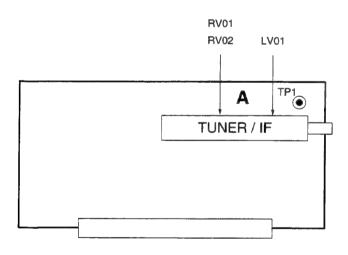
- Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 38.9 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the I.F coil (LV01) until the "AFT Status" indicates a "Window" condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the I.F adjustment service mode (i.e. " TT 59 ") to fix the I.F frequency to 34.2 MHz.
- 3. Enter into the service mode and select "Current TVStatus".
- 4. Adjust the RV02 until the "AFT Status" indicates a "Window" condition.

TUNER AGC ADJUSTMENT

- Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
- 2. Measure the voltage at test point 1 (A board).
- 3. Adjust RV01 to obtain a voltage of $3.0V \pm 0.3V$.

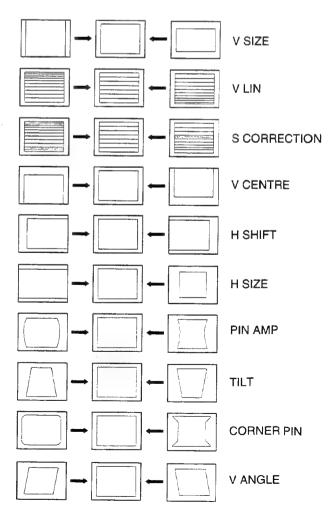


- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the Geometry Adjustment Service Menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJUS	STMENT
V Size	Adj
V Position	Adj
S Correction	Adj
V Linearity	Adj
H Size	Adj
H Position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	Adj
EHT H	Adj
Corner Pin	Adj



4-2. TEST MODE 2:

Is available by pressing Test button twice, OSD " TT " appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

02 I	Picture maximum Picture minimum
03	Picture minimum
04	Volume 30%
	Set service menu mode
05	Set production menu mode
06	Volume 80%
07	Set ageing condition
08	Set shipping condition
09 I	Language reset
10	No function
11 /	Adjustment without OSD
12 [Dummy
13	Display TV configuration
14 I	Forced AV 6:9 mode
15 F	Reset LPM from ROM data
16	copy LPM to reset memory
17 F	Preset label for AV sources
18 F	RGB priority on/off
19 (Clear all preset labels
20	No function
21 5	Sub contrast
22 5	Sub colour
23 8	Sub brightness
24 5	Set destination = U
25 5	Set destination = D
26 5	Set destination = B
27 5	Set destination = K
28 5	Set destination = L
29 5	Set destination = E
30 1	No function
31 5	Set destination =A
32	Dummy
33	Auto AGC
34 [Dummy
35 N	Manual AGC adjust

36-40	Dummy
41	Re-initialise NVM
42	Production use only
43	Initialise geometry settings
44	Initialise all favourite pages = 100
45	Channel locks = off
46	Dealer commander mode
47	Default MSP settings
48	Restore NVM test byte
49	Delete NVM test byte
50-60	No function
61	Turn on Dolby Pro Logic mode
62	White noise to left speaker
63	White noise to right speaker
64	White noise to centre speaker
65	White noise to rear speaker
66	Set standard stereo mode
67	Set Pro Logic normal mode
68	Set Pro Logic wide mode
69	Set Pro Logic phantom mode
70	No function
71	Picture rotation on/off
72	Dolby register settings
74	No function
75	Reset picture colour balance
76	Reset picture geometry
77	Reset sound settings
78	Reset error codes in the NVM
79-99	No function

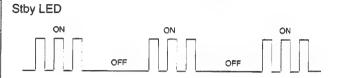
4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3D chassis is triggered in 1 of 2 ways: - 1: Bus busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1, non fatal errors are reported with this method.

Table 1

ERROR	LED ERROR COUNT
Protection circuit trip < ANY TIME >	02
IIC SCL LOW < POWER UP ONLY >	03
IIC SDA LOW < POWER UP ONLY >	04
IIC SDA & SCL LOW < POWER UP ONLY >	05
Jungle/Choroma controller no acknowledge < POWER UP ONLY >	06
Video Switch no acknowledge < POWER UP ONLY >	07
Tuner no acknowledge	08
MSP no acknowledge	09
NVM no acknowledge	10
M3L TXD LOW < POWER UP ONLY >	11
M3L RXD LOW < POWER UP ONLY >	12
M3L ENABLE LOW < POWER UP ONLY >	13
M3L TXD & RXD LOW < POWER UP ONLY >	14
Compact Text test fail < POWER UP ONLY >	15
AV switch cannot power on reset	16
Cannot initialise jungle	17
NVM acknowledge fail after initialisation	18
Multiple devices with no acknowledge < POWER UP ONLY >	19
Compacttext run-time failure	20
AVSWITCH response failure after power up	21
JUNGLE/CHROMA controller response failure after power up	22
CompactText does not respond	23

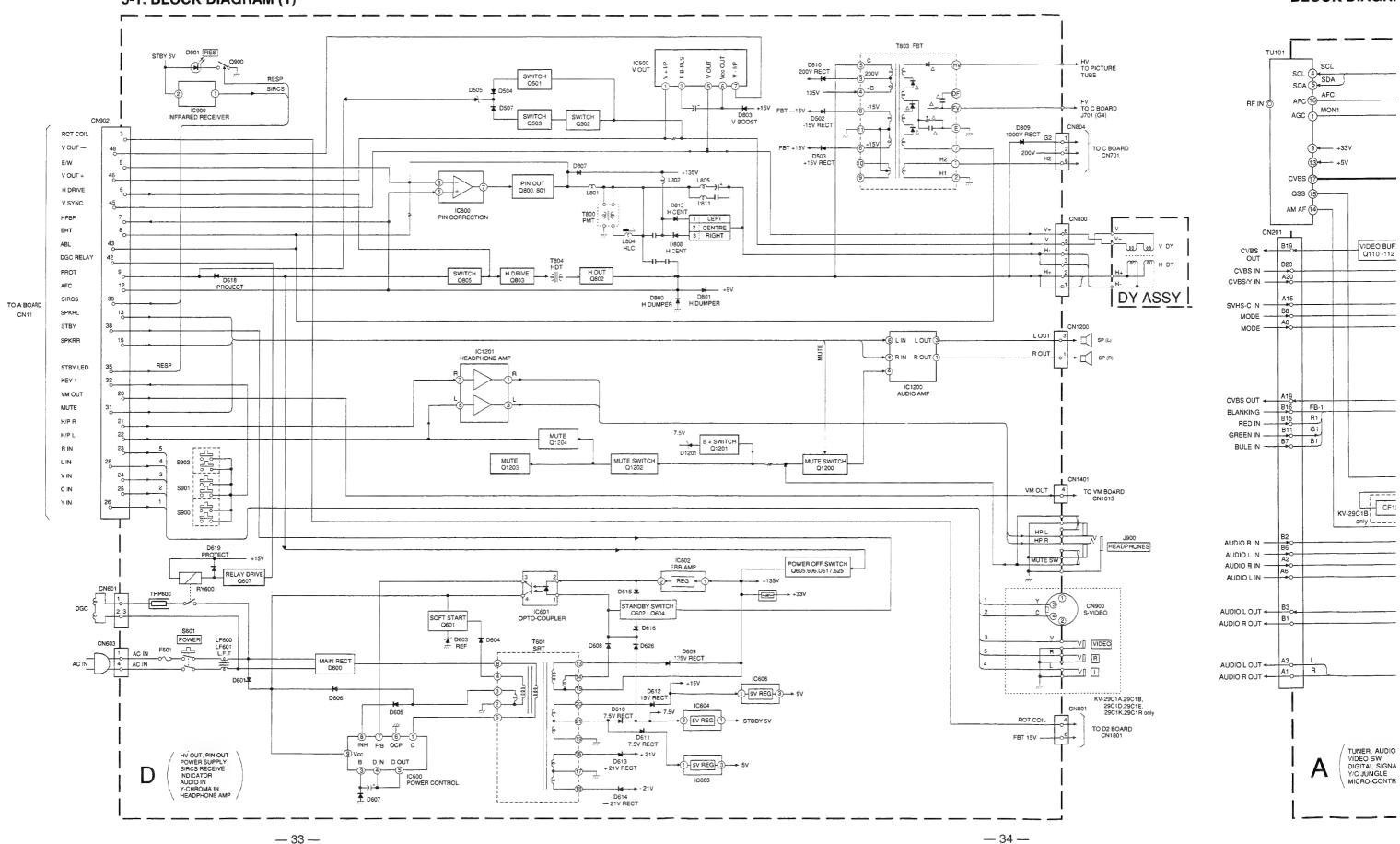
Flash Timing Example : e.g. error number 3.



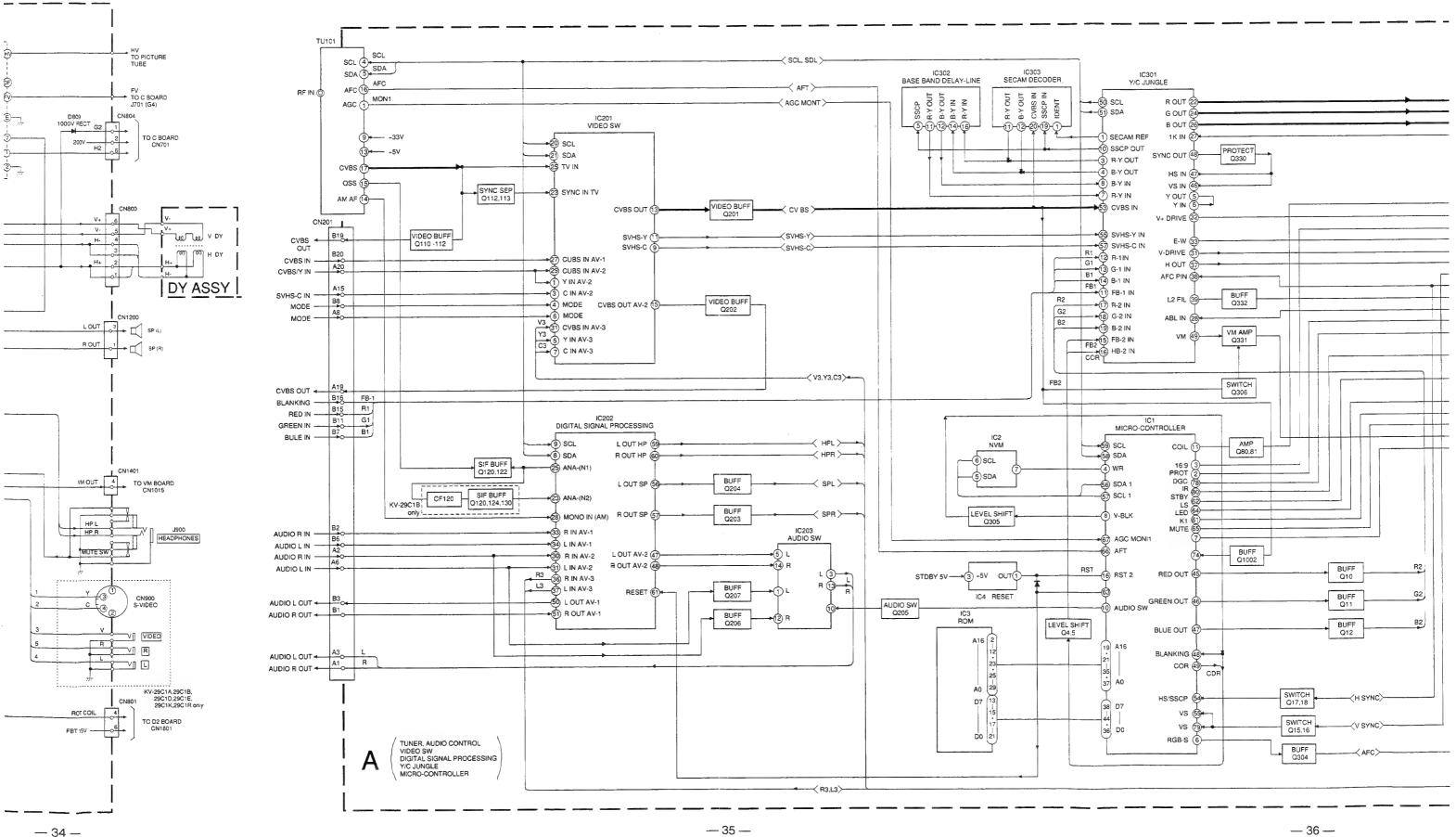
KV-29C1

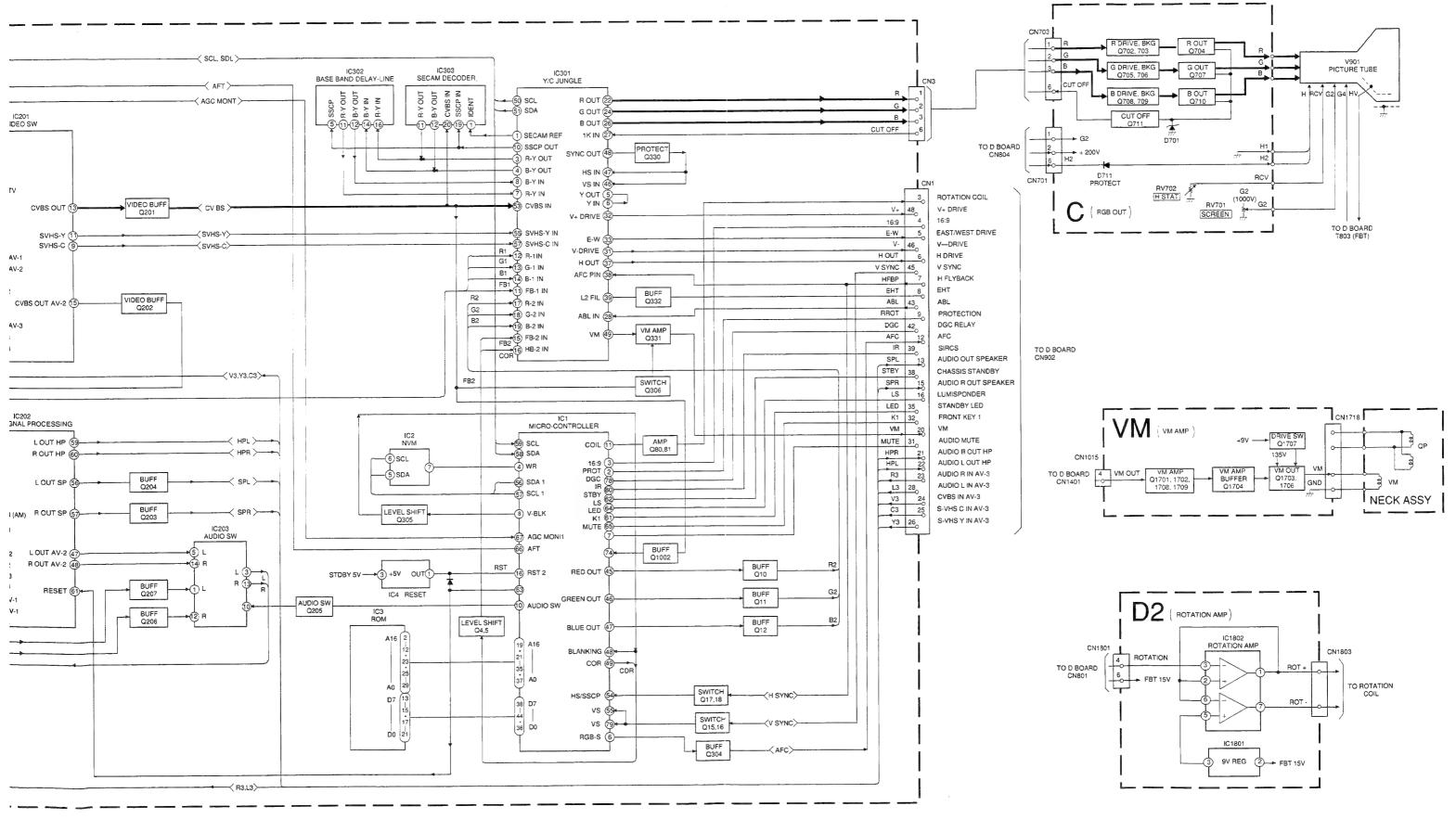
MEMO	
·	

BLOCK DIAGR 5-1. BLOCK DIAGRAM (1)



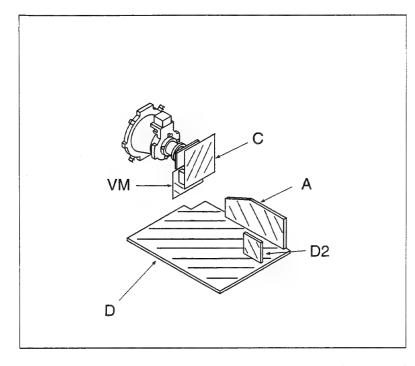
BLOCK DIAGRAM (2)





KV-29C1 KV-29C1

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

 All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.

All resistors are in ohms.

k = 1000, M = 1000K

 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power ¼ W

: nonflammable resistor.: internal component.

• panel designation, or adjustment for repair.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• \(\precedent \) : earth - ground.

• $\frac{1}{1}$: earth - chassis.

• # : no mounted.

Note: The components identified by shading and marked are critical for safety. Replace only with the part number specified.

Note: Les composants identifies par une trame et une marque A sont critiques pour la securite.

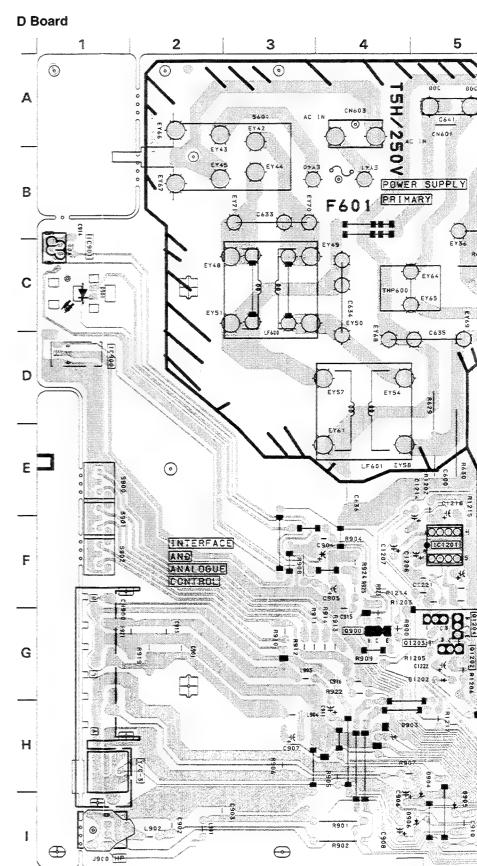
Ne les remplacer que par une piece portant le numero specifie.

Reference information

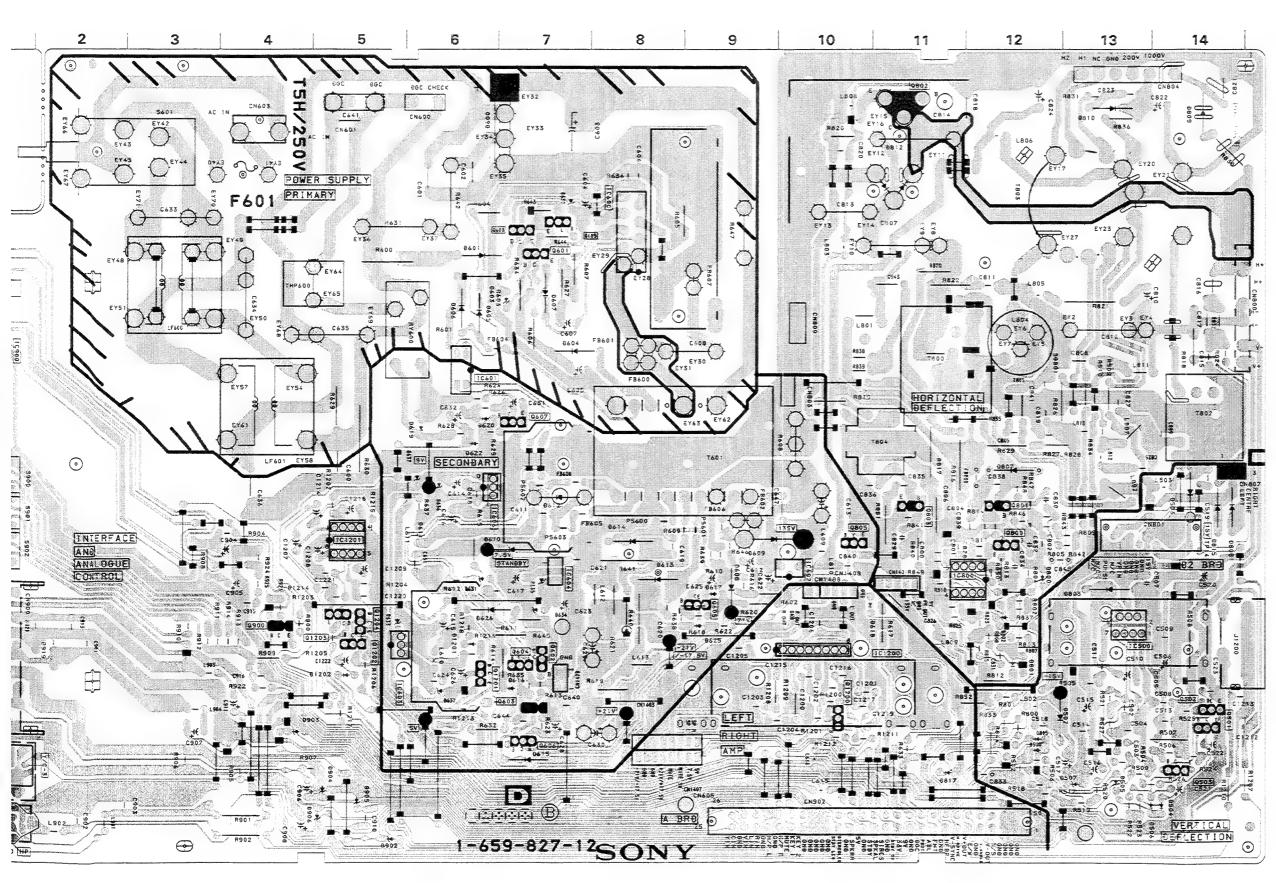
RESISTOR METAL FILM : RN : RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND ADJUSTABLE RESISTOR : X : LF-8L MICRO INDUCTOR COIL TANTALUM CAPACITOR :TA : PS STYROL : PP POLYPROPYLENÉ :PT MYLAR METALIZED POLYESTER : MPS METALIZED POLYPROPYLENE : MPP BIPOLAR : ALB : ALT HIGH TEMPERATURE HIGH RIPPLE : ALR

- Readings are taken with a colour-bar signal input.
- Readings are taken with $10M\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

THV CUT, PIN OUT, POWER SUPPLY, CONTROL SW, AUDIO IN Y-CHROMA IN, HEADPHONE IN, SIRCS RECEIVE, INDICAITON



UT, PIN OUT, POWER SUPPLY, CONTROL SW, AUDIO IN ROMA IN, HEADPHONE IN, SIRCS RECEIVE, INDICAITON _





D BOARE

IC500 IC600 IC601 IC602 IC603 IC604 IC606 IC800 IC900

IC1200 IC1201 TRANSIS Q501 Q502 Q503 Q601 Q602 Q603 Q604 Q605 Q606 Q607 Q800 Q801 Q802 Q803 Q805 Q900 Q1200 Q1201 Q1202

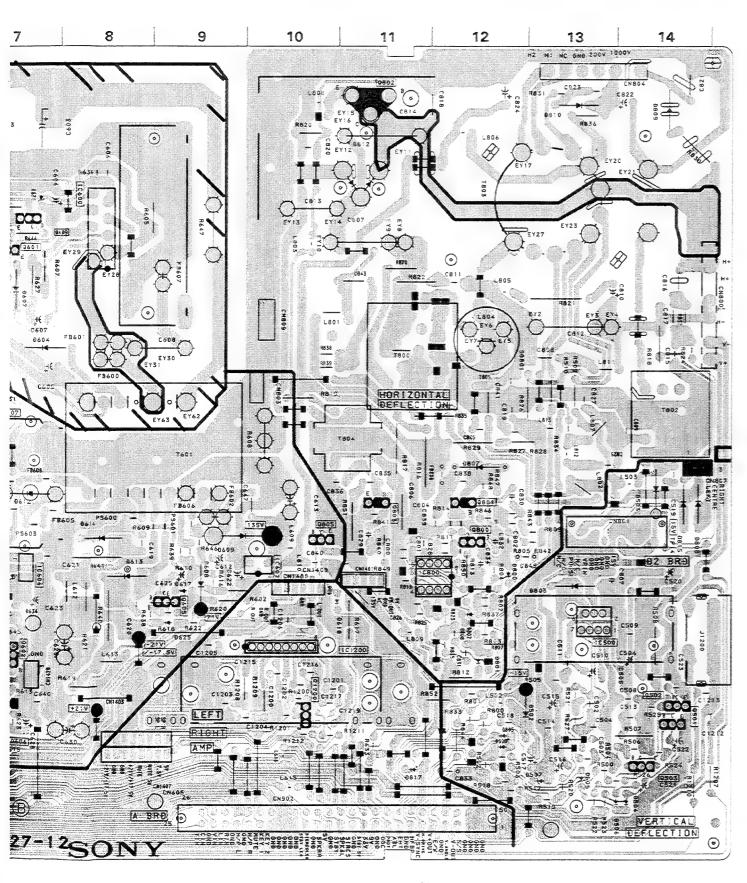
Q1203 Q1204

D500 D502 D503 D504 D505

D506

D507

DIOD



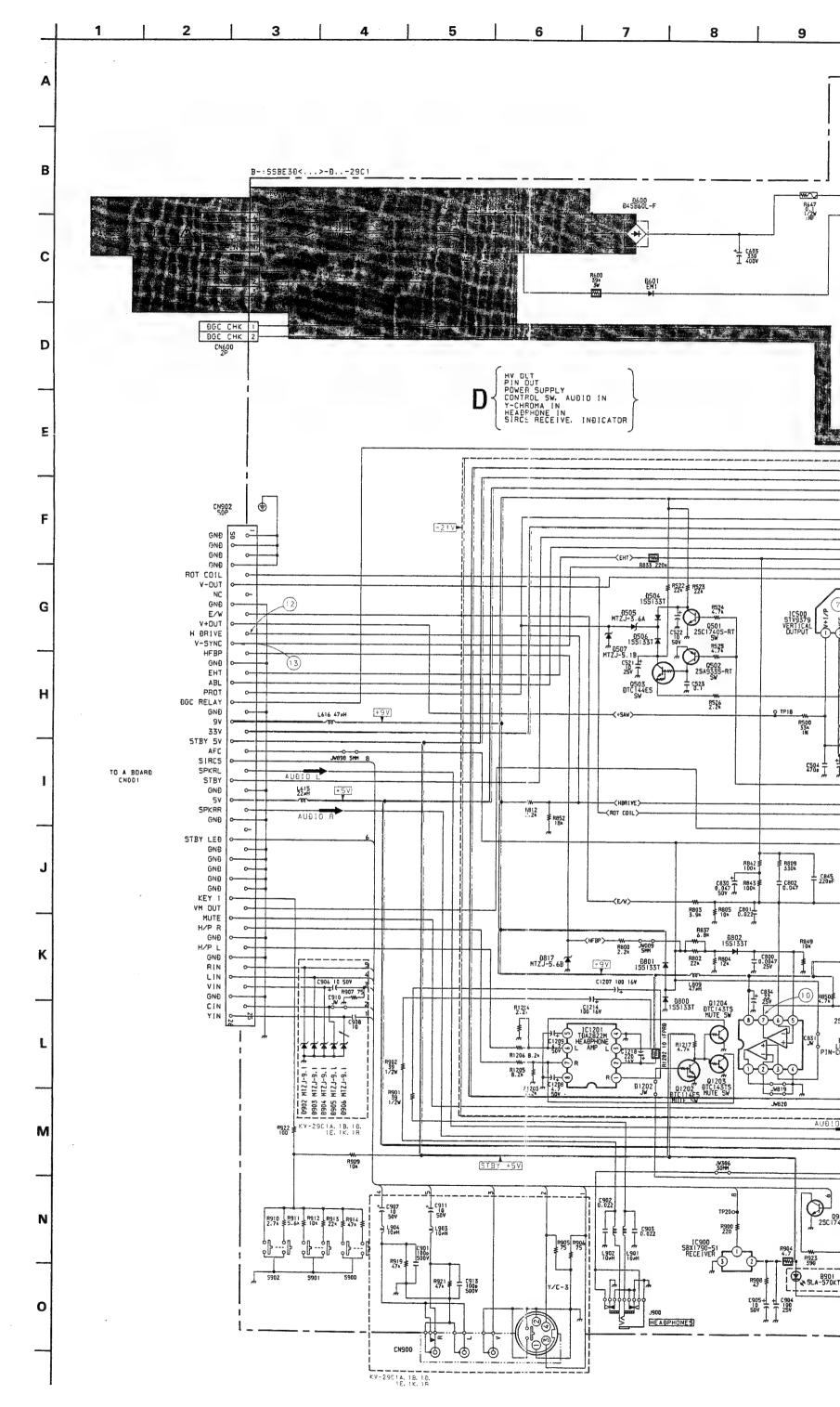


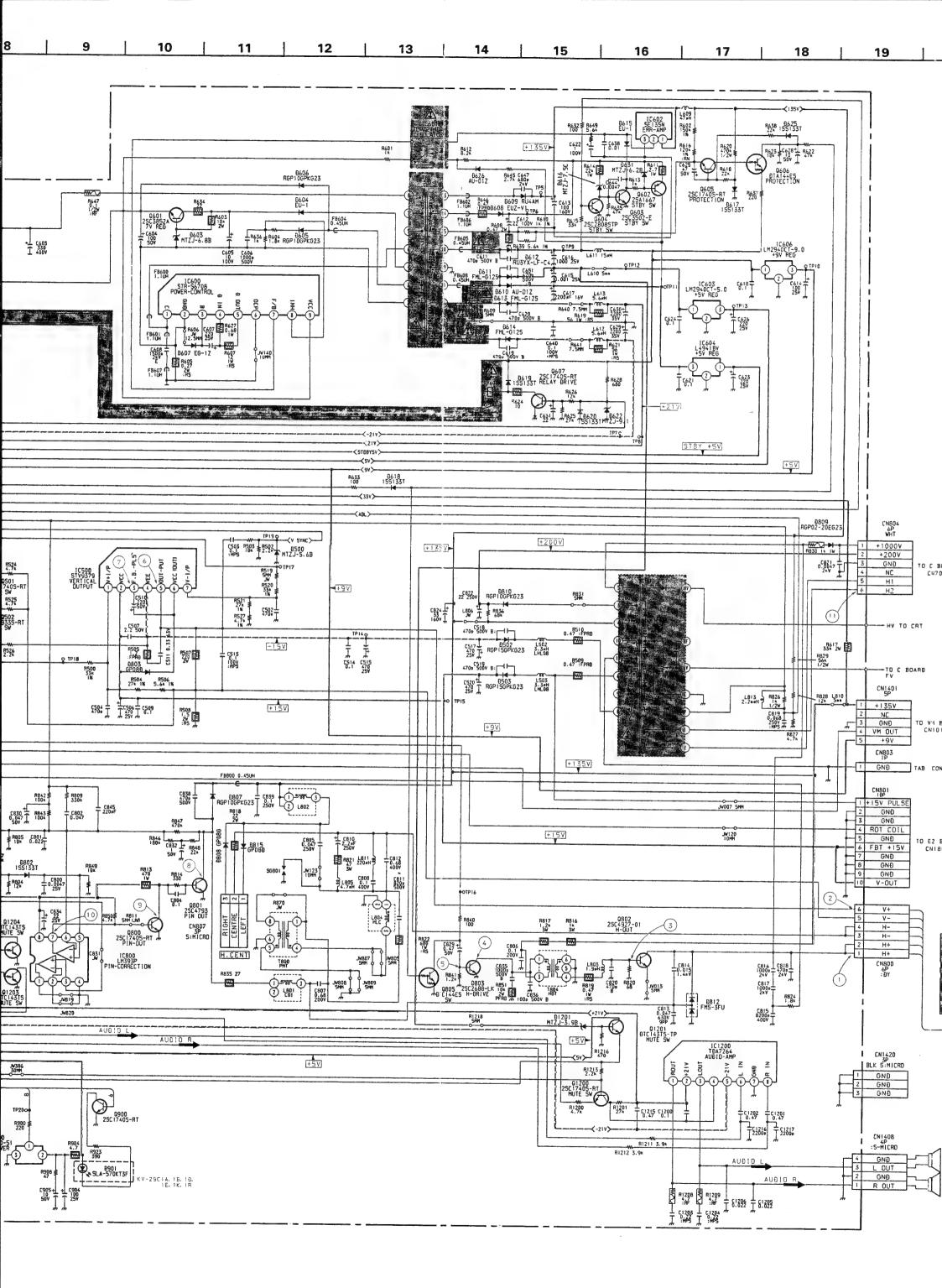
NOTE:

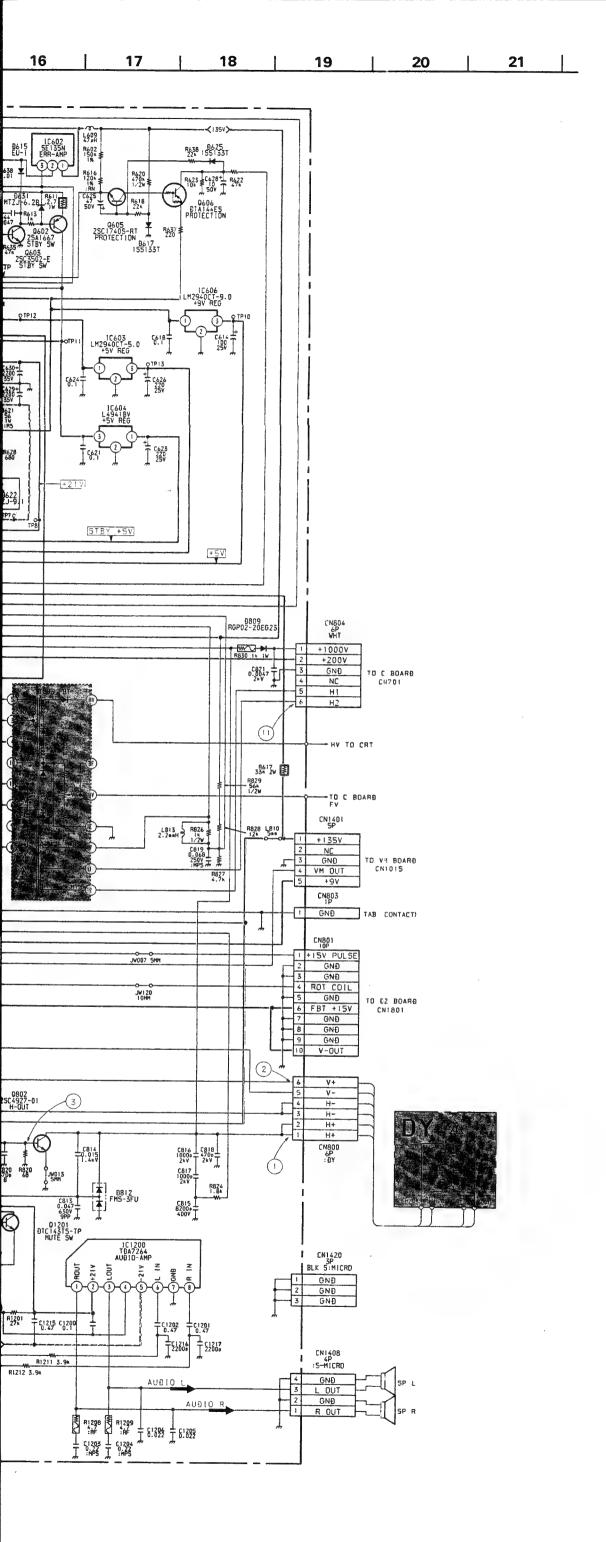
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

D BOARD

IC		DIODE	
IC500	G-13	D600	A-7
IC600	B-8	D601	C-6
IC601	D-6	D603	C-7
IC602	F-10	D604	D-7
IC603	G-5	D605	C-6
IC604	F-7	D606	C-6
IC606	E-6	D607	C-7
IC800	F-12	D608	F-9
IC900	D-1	D609	F-9
IC1200	G-10	D610	F-7
IC1201	F-5	D611	F-6
		D612	E-7
TRANSI	STOR	D613	F-8
Q501	H-14	D614	F-8
Q502	H-14	D615	H-7
Q503	H-14	D616	G-7
Q601	C-7	D617	F-9
Q602	G-7	D618	F-11
Q603	H-7	D619	E-6
Q604	G-7	D620	E-6
Q605	F-9	D622	E-6
Q606	H-7	D625	G-9
Q607	D-7	D626	G-6
Q800	F-12	D631	F-6
Q801	E-12	D800	F-12
Q802	A-11	D801	G-12
Q803	E-11	D802	G-12
Q805	F-10	D803	F-13
Q900	G-4	D807	E-12
Q1200	H-10	D808	E-14
Q1201	G-6	D809	A-14
Q1202	G-5	D810	A-13
Q1203	G-5	D812	B-11
Q1204	G-5	D815	E-14
DIOI	DE	D817	H-11
D500	H-12	D901	C-1
D502	H-13	D902	I-5
D503	I-14	D903	H-4
D504	H-11	D904	H-5
D505	H-13	D905	I-5
D506	I-14	D906	I-5
D507	H-13	D1201	G-6







1.2K Vp-p (H) 56.0 Vp-p (V) 5 6 2.6 Vp-p (H) 56 Vp-p (V) 9 10 3.9 Vp-p (H) 1.0 Vp-p (H)

D BOARD
TRANSISTOR VOLTAGE TABLE

5.5 Vp-p (V)

Transistor Vo tage Table						
Ref No	No B C E Base Collector Emitter					
Q501	-0.1	0.2	-			
Q502	0.1	-5.8	-			
Q503	-5.8	-12.0	-12.0			
Q602	72.0	7.5	72.7			
Q603	-0	72.0	-			
Q604	0.7	-				
Q605	0.5	-	0.3			
Q606	-	-	12.0			
Q607	-	12.0	-			
Q800	0.2	3.1	-			
Q801	0.3	17.0	-			
Q802	-0.2	143.3	-			
Q803	-0.6	99.8	-			
Q805	-	3.6	-			
Q900	-	5.4	-			
Q1200	2.9	21.5	4.6			
Q1201	3.4	5.0	3.0			
Q1202	2.8	-	-			

WAVEFORMS D BOARD 3 4 2 1.2K Vp-p (H) 56.0 Vp-p (V) 13.0 Vp-p (H) 178 Vp-p (H) (5) **6** 7 8 2.6 Vp-p (1) 56 Vp-p (V) 31 Vp-p (V) 140 Vp-p (H) 10 9 12 3.9 Vp-p (H) 28 Vp-p (H) 1.0 Vp-p (H) 3.0 Vp-p (H) (13)

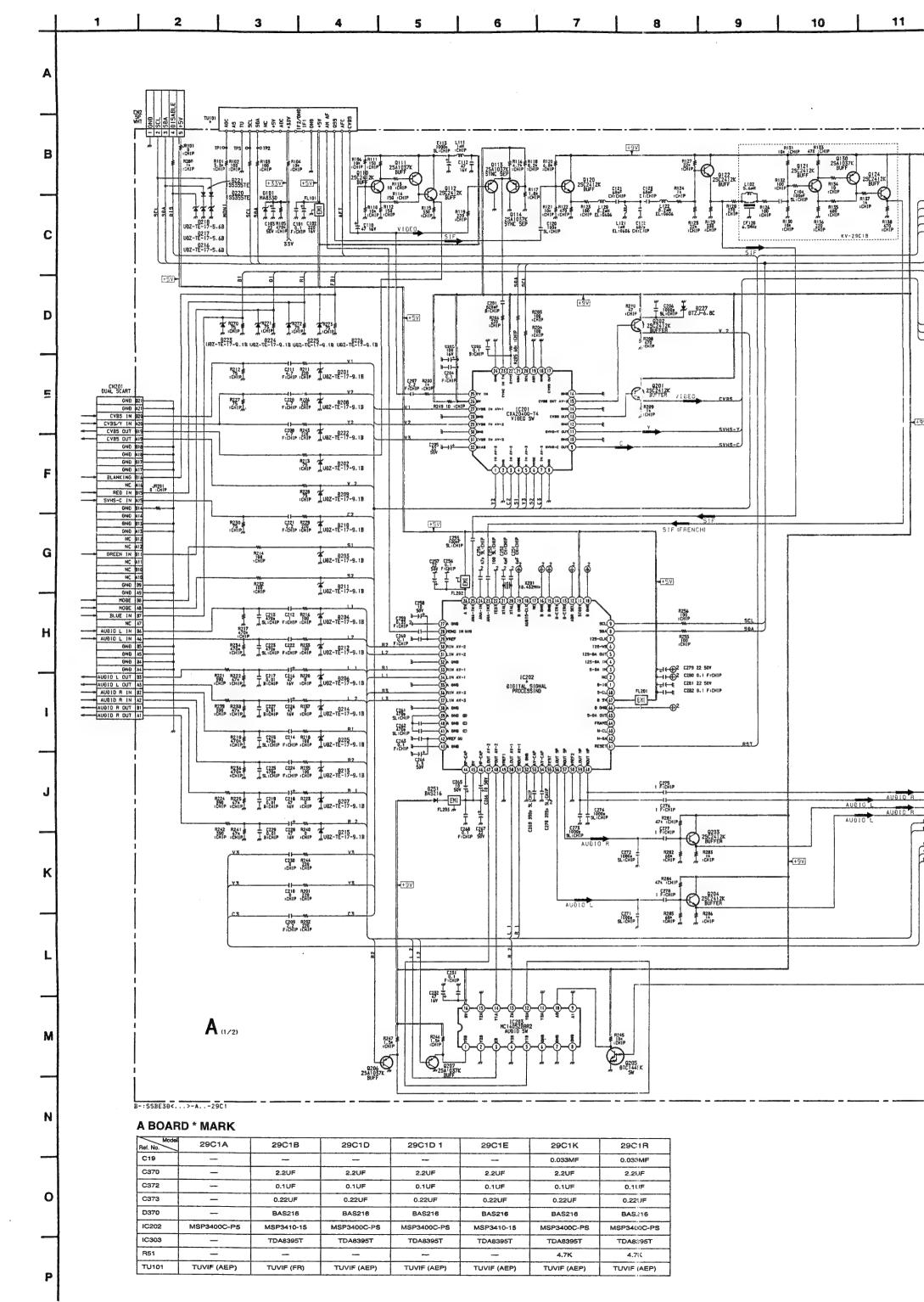
D BOARD TRANSISTOR VOLTAGE TABLE

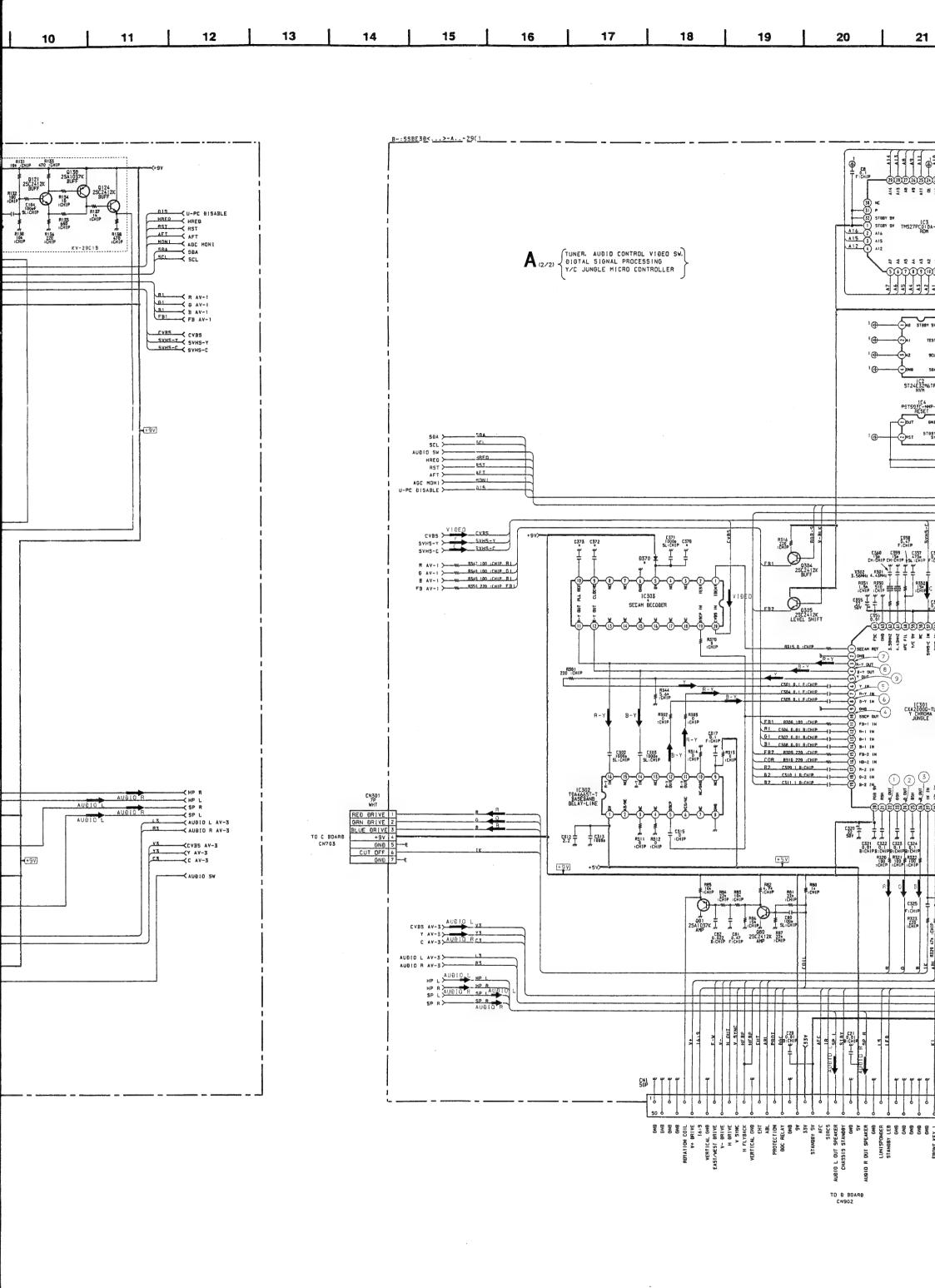
5.5 Vp-p (V)

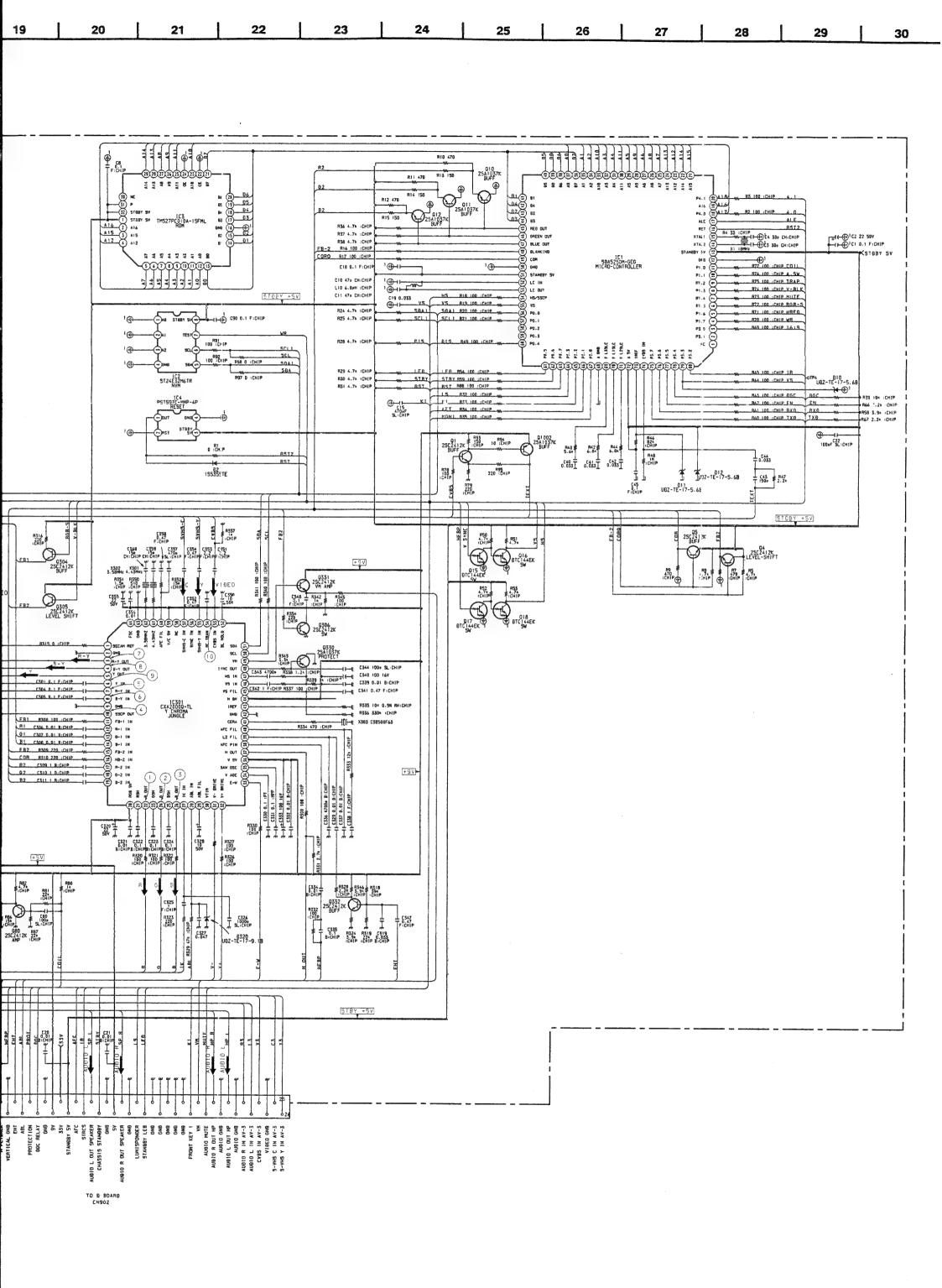
Transistor Vo tage Table					
Ref No Base Collector Emitter					
Q501	-0.1	0.2			
Q502	0.1	-5.8	-		
Q503	-5.8	-12.0	-12.0		
Q602	72.0	7.5	72.7		
Q603	.0	72.0	-		
Q604	0.7	-	-		
Q605	0.5	-	0.3		
Q606	-	-	12.0		
Q607	-	12.0	-		
Q800	0.2	3.1	-		
Q801	0.3	17.0	-		
Q802	-0.2	143.3	-		
Q803	-0.6	99.8	-		
Q805	•	3.6	-		
Q900	-	5.4			
Q1200	2.9	21.5	4.6		
Q1201	3.4	5.0	3.0		
Q1202	2.8	*	-		

D BOARD IC VOLTAGE TABLE

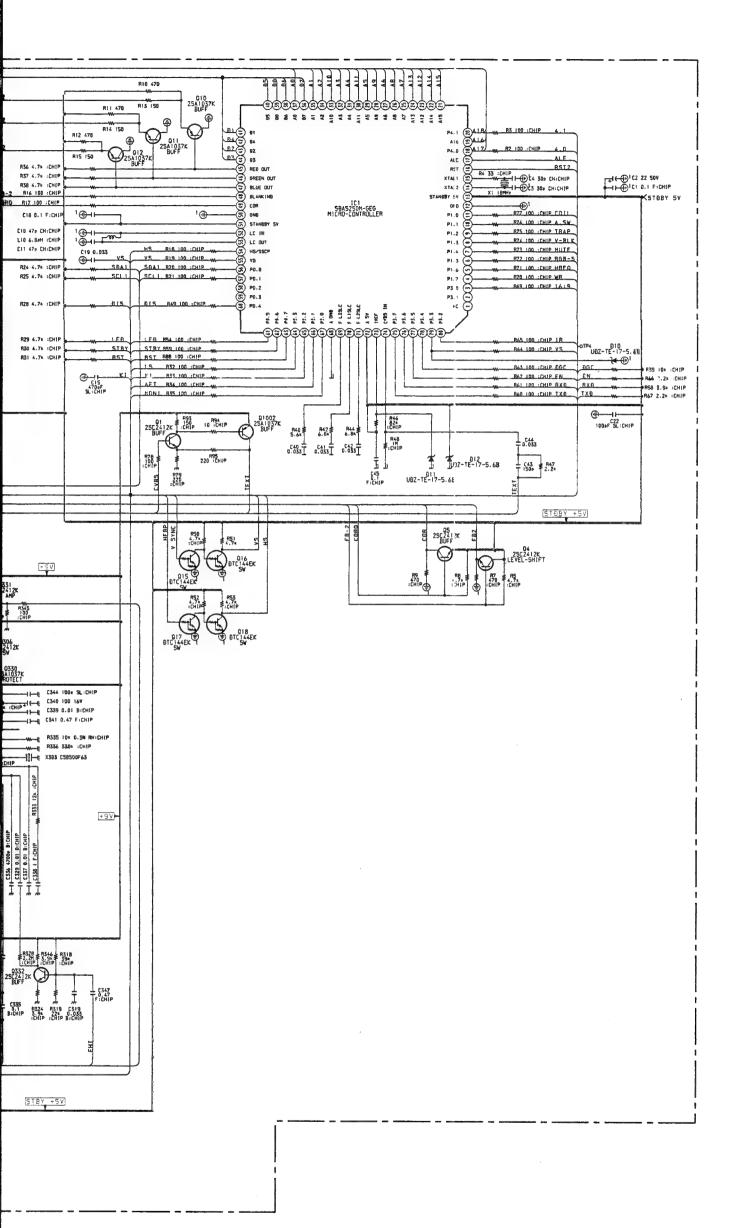
IC Voltage Table				
Ref No	Pin No	Voltage (V)		
	1	1.5		
	2	15.0		
	3	-12.3		
IC500	4	-14.0		
	5	0.1		
	6	15.2		
	7	1.4		
	1	170.0		
	2	-62.4		
	3	-62.6		
	4	-62.2		
IC600	5	-62.0		
	6	-62.6		
	7	-62.4		
	8	-62.0		
	9	-58.0		
	1	64.3		
IC601	2	63.0		
10001	3	-62.5		
	4	-58.6		
	1	135.0		
IC602	2	63.2		
	3	-0.1		
	3	0.9		
	5	1.5		
1C800	6	2.0		
	7	0.2		
	8	9.0		
	2	21.7		
IC1200	4	21.5		
	5	-21.7		
	1	4.0		
Ī	2	9.0		
IC1201	3	4.0		
	5	0.5		
	8	0.5		











A (1/2) BOARD IC VOLTAGE TABLE

IC Voltage Table					
Ref No	Pin No Voltage (V)				
	13	4.4			
	15	4.4			
	20	3.5			
	21	2.7			
	22	4.9			
IC201	23	4.4			
	24	0			
	25	4.4			
	26	8.8			
	32	4.4			
	4	2.8			
	6-7	0.1			
	8	3.0			
	9	3.6			
	11	4.7			
	13	4.7			
	20-21	2.4			
	23	0.2			
IC202	25	1.5			
10202	26	4.8			
	28	3.8			
	29	2.6			
	39-42	3.8			
	44	7.1			
	45	8.0			
	46	7.1			
	47-48	3.8			
	53-54	3.8			

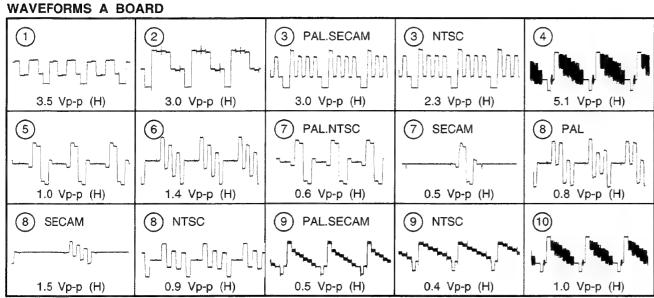
A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

Т	Transistor Voltage Table						
Ref No	Ref No Base Collector Emitter						
Q1	3.7	4.8	3.1				
Q4	0.1	4.8	-				
Q5	0.7	4.8	4.0				
Q15	-	4.3	-				
Q16	4.3	0.2	-				
Q17	0.4	3.5	-				
Q18	3.5	0.7	-				
Q80	2.6	2.2	-				
Q81	2.4	-	3.0				
Q304	-	4.8	-				
Q305	-	4.8	-				
Q330	4.5	•	5.1				
Q331	6.3	8.8	5.7				
Q332	3.1	8.8	2.5				
Q1001	4.4	-	+				

A (1/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table					
Ref No	ef No Base Collector				
Q110	1.8	8.2	1.2		
Q112	1.5	8.8	0.8		
Q113	1.8	-			
Q114	5.4	6.0	-		
Q120	84.3	8.8	3.7		
Q121	1.5	5.4	0.9		
Q122	5.4	8.8	4.7		
Q124	-	8.8	-		
Q201	4.4	8.8	3.7		
Q202	4.4	8.8	3.7		

KV-29C1 KV-29C1

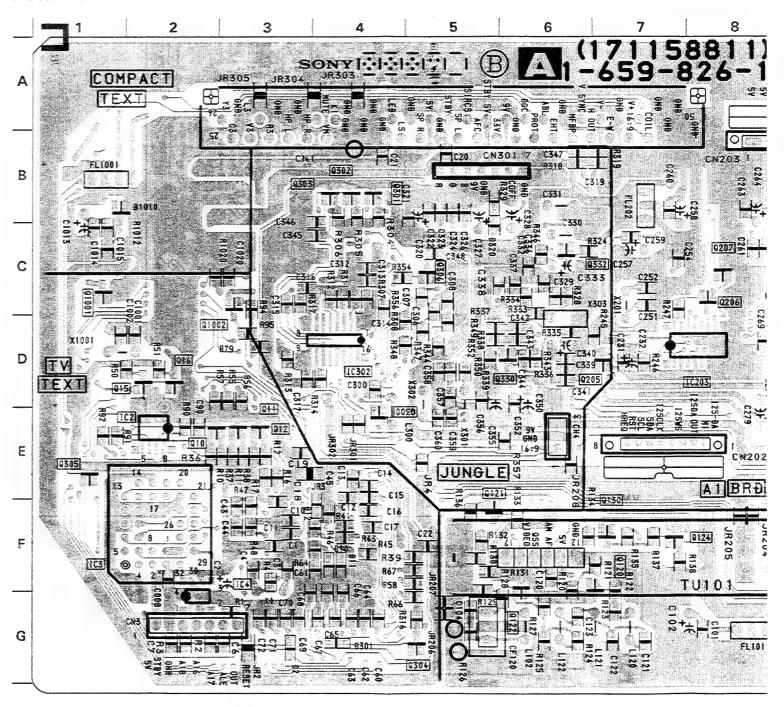


A (2/2) BOARD IC VOLTAGE TABLE

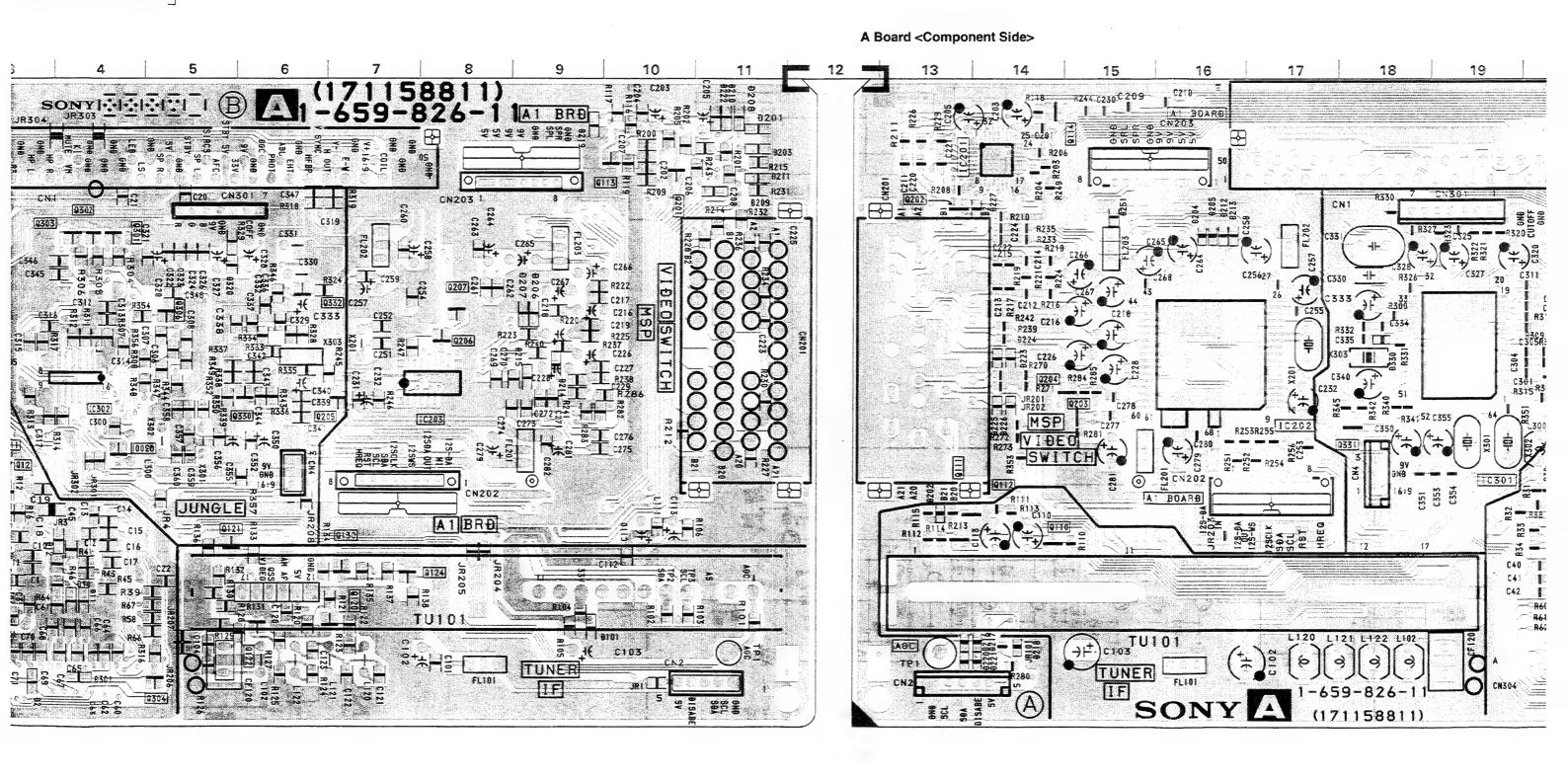
				IC Voltag	je Table			
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	2	3.6		5	3.6	IC301	61	5.0
	3-4	4.8	1	6	5.0	10301	62	7.6
	5	0.5	1	7-8	5.4		1	4.8
	7	4.8	1	10	0.6	7	5	0.7
	9	4.8	1	12-14	5.4	٦,,,,,	9	4.8
	11	2.4	1	16	4.0	IC302	11-12	3.0
	13	4.8	1	17-19	5.4	7	14	1.3
	14-15	2.3	1	20	8.8	7	16	1.3
	16-17	4.8	1	22-23	2.2		5	8.0
	48	4.0	7	24	2.0		3.2	10
	51	4.8	1	25	2.4		11	5.6
	52-53	2.4	1	26	2.0	IC303	0	19
	54	0.7	1	27	4.0	7	20	3.7
	55	0.2	1	28	6.6	7	4	0.2
	56-57	7 4.8 29 8.8	7	5	0.7			
IC1	1 58	2.8	1	31-33	3.0		4	0.2
	59	3.5	1	34	4.0	٦	5	0.7
	60	2.4	1	35	4.6	7	6	1.7
	62	0.7	IC301	36	8.8	7	7	1.8
	63	4.4	1	37	3.1	7	10	0.4
	65	4.8	1	38	3.4	7	11-12	4.8
	66	2.1	1	39	5.3	7	16	4.8
	67	2.0	1	40	4.2	7	17	0
	69-71	2.3		41	2.3	7	21	4.8
	72	4.8		43	1.7	IC1001	23	3.0
	73	1.5		44	8.8		25	4.8
	74	1.2	1	45	2.5		56	0
	75-77	4.8]	46	3.9	7	61	1.3
	79	0.2	1	47	3.0	7	62-63	1.4
	80	4.8	1	48	4.4	7	64	0
IC2	5-8	4.8]	49	6.3		66	4.6
100	1 '	4.8]	50-51	0.1		67	4.7
IC3	31-32	4.8		53	3.9		68	4.0
104	1	4.8]	54	5.0			
IC4	3	4.8]	55-56	4.2			
10001	1	1.5] i	58-59	8.8			
IC301	3-4	5.6]	60	5.3	7		

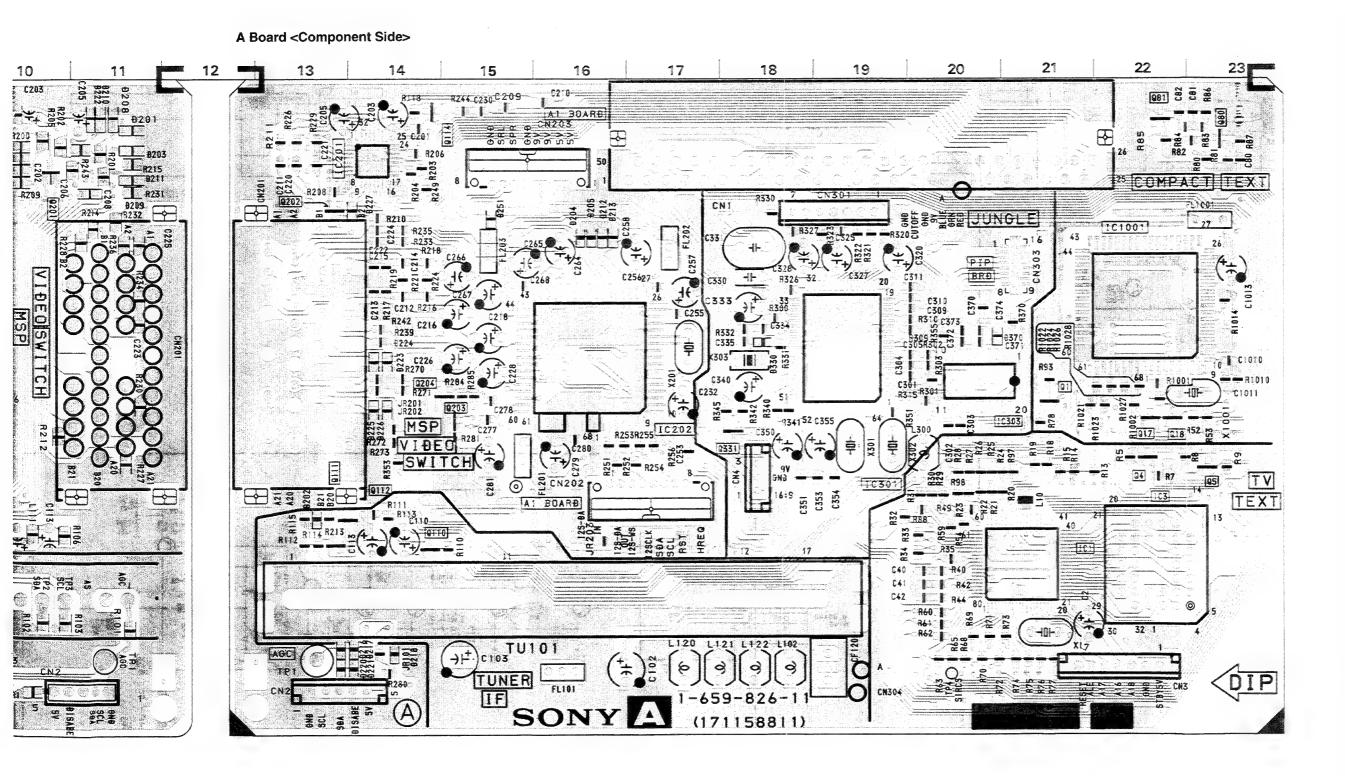
TUNER, AUDIO CONTROL VIDEO SW, DIGITAL SIGNAL PROCESSING L Y/C JUNGLE MICRO CONTROLLER

A Board < Conductor Side>



DIGITAL SIGNAL PROCESSING

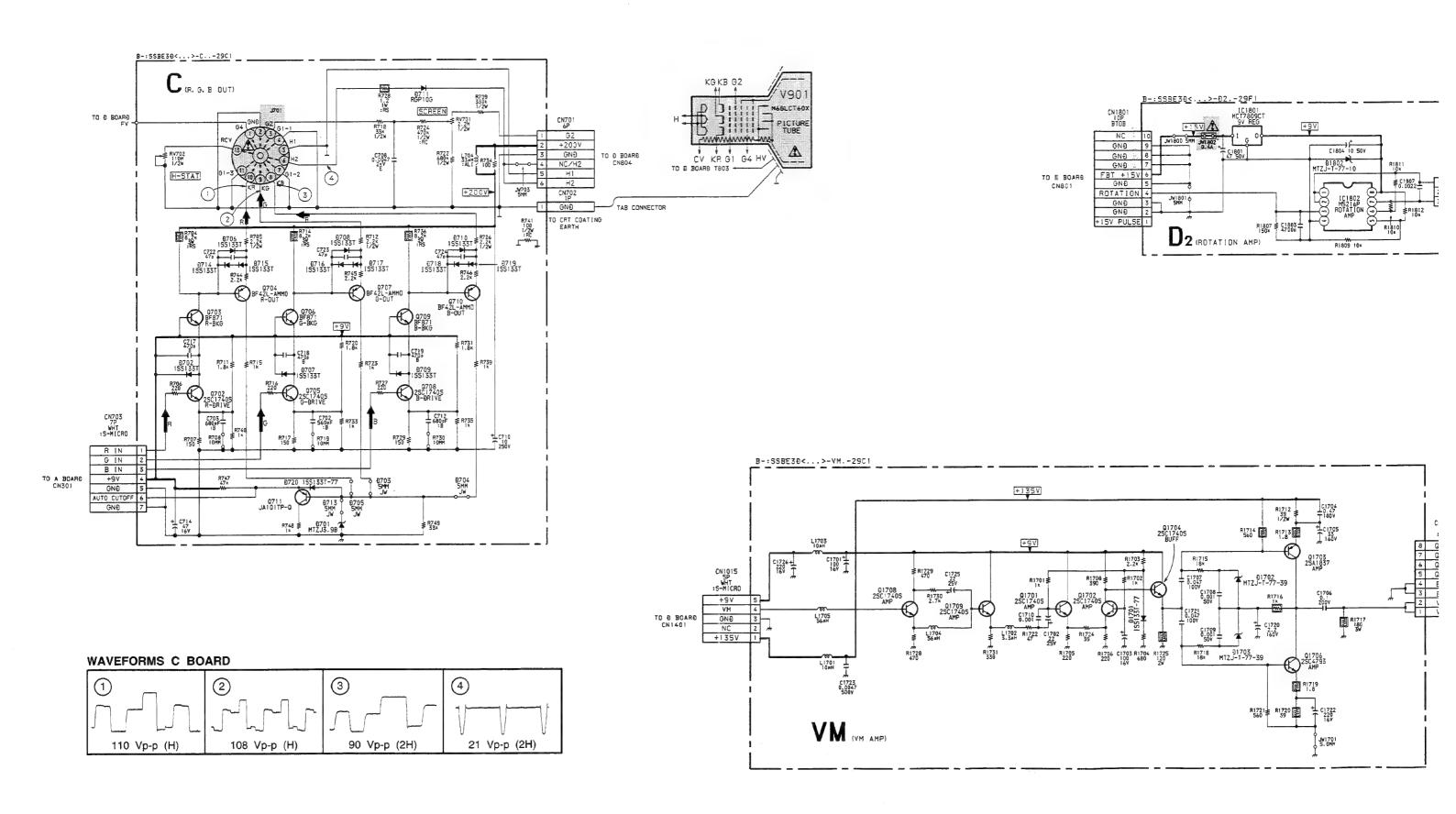




A BOARD

A BOARD					
IC	;	Q305	E-1		
IC1	F-21	Q306	C-5		
IC2	E-2	Q330	D-6		
IC3	F-2	Q331	D-18		
IC4	G-2	Q332	C-6		
IC201	A-14	Q1002	C-3		
IC202	C-16	DIC	DDE		
IC203	D-8	D2	G-3		
IC301	C-19	D10	F-10		
IC302	D-4	D11	F-10		
IC303	D-21	D12	F-4		
TRANS	ISTOR	D101	F-9		
Q1	D-21	D201	A-11		
Q4	E-22	D202	E-13		
Q5	E-23	D203	A-11		
Q10	E-2	D204	B-16		
Q11	E-3	D205	B-16		
Q15	D-2	D206	C-9		
Q16	D-2	D207	C-9		
Q17	·D-22	D208	A-11		
Q18	D-23	D209	B-11		
Q80	A-23	D210	A-11		
Q81	A-22	D211	B-11		
Q110	F-14	D212	B-16		
Q111	E-14	D213	B-16		
Q112	E-14	D214	D-9		
Q113	A-10	D215	D-9		
Q114	A-14	D216	G-14		
Q120	F-7	D217	G-14		
Q121	F-5	D218	G-14		
Q122	F-6	D220	G-14		
Q124	F-7	D221	D-14		
Q130	F-7	D222	D-14		
Q201	B-10	D223	D-14		
Q202	B-13	D224	D-14		
Q203	D-15	D225	D-14		
Q204	D-15	D226	D-14		
Q205	D-7	D227	B14		
Q206	C-8	D251	B-15		
Q207	C-8	D320	C-5		
Q304	G-5	D370	C-21		

KV-29C1 KV-29C1



CN1801 10P BTOB

GNÐ GNÐ FBT +15V

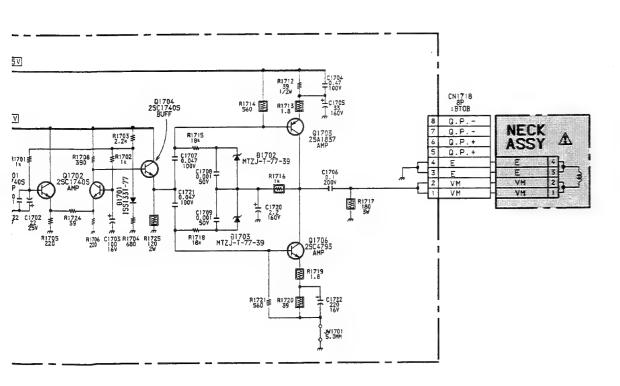
15 (ROTATION AMP)

TO & BOARS CN801 D2

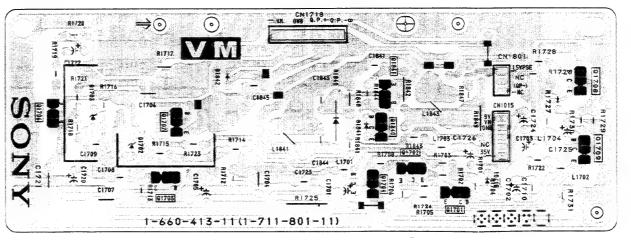
(1-7/10-957-1-1) 1-658-225-11



TO ROTATION COIL



VM Board



C BOARD TRANSISTOR VOLTAGE T

Transistor Voltage Table					
Ref No	B Base	C Collector	Em		
Q702	2.0	11,4	1		
Q703	12.0	168.3	11		
Q704	168.3	6.0	16		
Q705	1.7	11.4	1		
Q706	12.0	178.8	11		
Q707	178.2	6.2	17		
Q708	2.0	11.4	1		
Q709	12.0	168.3	11		
Q710	168.0	6.4	16		

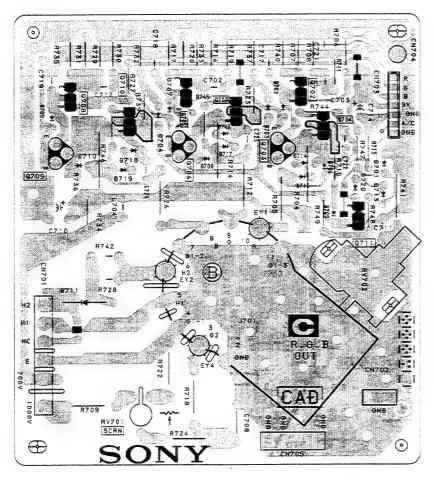




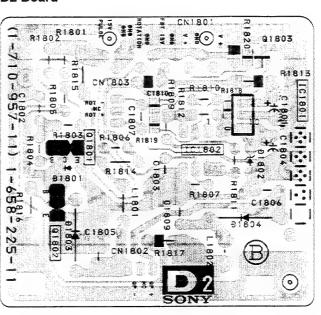


D2 [ROTATION AMP]

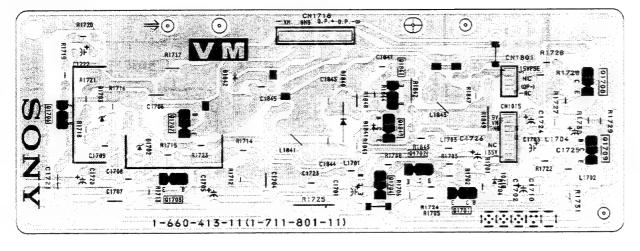
C Board



D2 Board



VM Board



C BOARD TRANSISTOR VOLTAGE TABLE

T	Transistor Voltage Table						
Ref No	B Base	C Collector	E Emitter				
Q702	2.0	11.4	1.4				
Q703	12.0	168.3	11.4				
Q704	168.3	6.0	163.5				
Q705	1.7	11,4	1.2				
Q706	12.0	178.8	11.4				
Q707	178.2	6.2	173.8				
Q708	2.0	11.4	1.4				
Q709	12.0	168.3	11.4				
Q710	168.0	6.4	160.0				

VM BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table					
Ref No	B Base	C Collector	E Emitter		
Q1701	2.5	8.8	1.8		
Q1702	2.5	5.5	1.8		
Q1703	134.3	71.8	134.8		
Q1704	5.5	8.8	4.8		
Q1706	1.0	71.8	0.4		
Q1707	0.7		•		
Q1708	2.9	6.6	2.2		
Q1709	2.2	8.8	1.5		
Q1840	0.6		-		

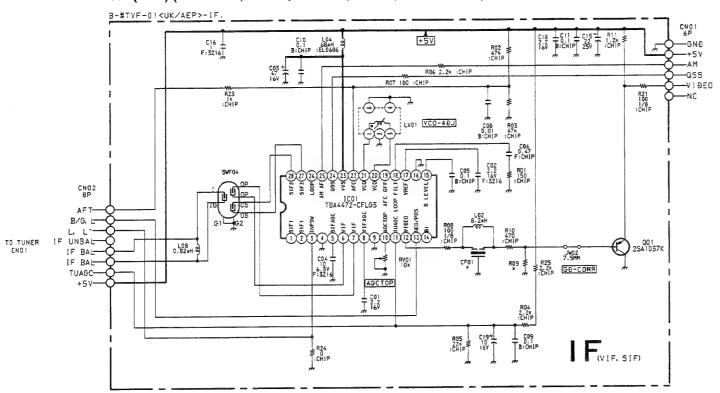
D2 BOARD IC VOLTAGE TABLE

	IC Voltage Table Pin No Voltage (V) 1-2 2.8 3 3.0 5-6 4.4 7 6.2 8 9.0	
Ref No	Pin No	Voltage (V)
-	1-2	2.8
	3	3.0
IC1802	5-6	4.4
101002	7	6.2
	8	9.0

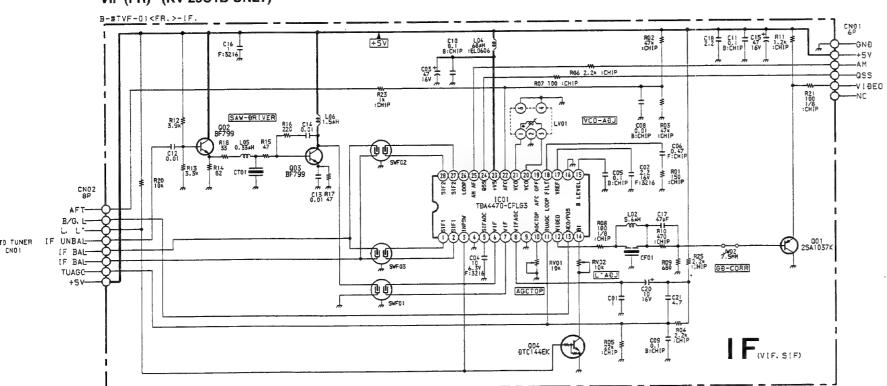
KV-29C1

KV-29C1

VIF (AEP) (KV-29C1A, 29C1D, 29C1D 1, 29C1E, 29C1K ONLY)



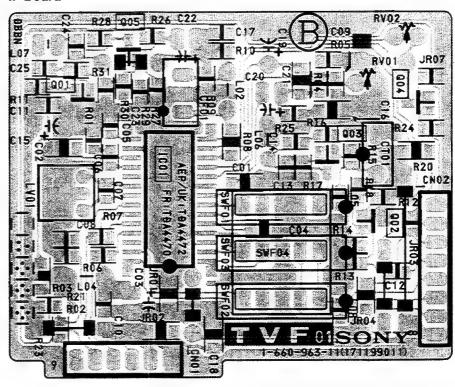
VIF (FR) (KV-29C1B ONLY)



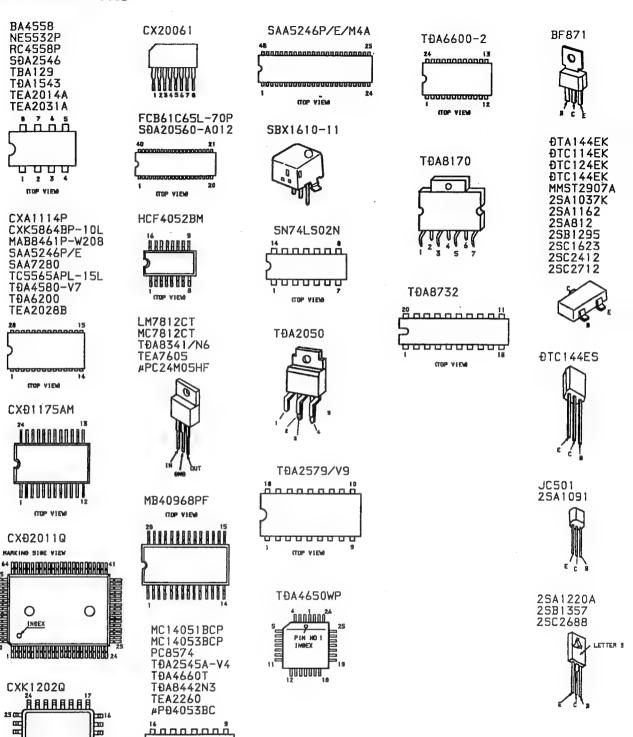
-63-

[VIF, SIF]

IF Board



5-4. SEMICONDUCTORS



COP VIEW

BRABARAR

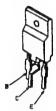
25B734 25Đ773 25Đ774



2SC2785



25£1548



2SÐ1941

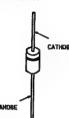


2S02096



IBE

BR405B BB809 ERC06-155 ERC25-065 RGP10G RU-3AM



CTU-125



ĐAN202K ĐAN212K MA152WK 152837



ĐAP202K



ĐA204K 1S226



Đ4SB60L-F



EGP20G GP08Đ RGP02-17 RGP15J



ERÐ29-08J



IMN10



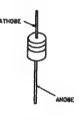
L0-201VR



MA3056M MA3110 MA3036H MA3068M RÐ11M-B2 RÐ3.6M-B2 RÐ5.6M-B2 RÐ6.8M-B2



MTZJ-13B MTZJ-15A MTZJ-33A MTZJ-3.9B MTZJ-4.9B MTZJ-5.6B MTZJ-7.5C MTZJ-7.5C MTZJ-9.1C MTZN-10C MTZN-10C MTZN-10C R05.6ESB2 R06.2ESB2 R06.8ESB2 R06.8ESB2 R07.5ESB2 R07.5ESB3 UZ4.7BSC 1SS119 1SS133

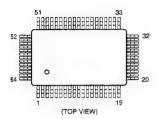


U05G



5-4. SEMICONDUCTORS

CXA2000Q-TL



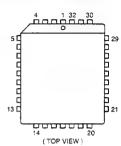
MC14052BDR2



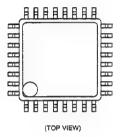
ST24E32M6TR



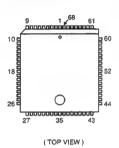
TMS27PC010A-15FML



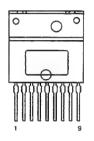
CXA2040Q-T4



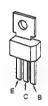
MSP3400C-PS MSP3410-15



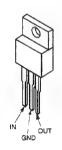
STR-S6708



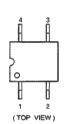
BF871-127



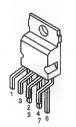
L4941BV



PST593C-MMP-4P



STV9379



BF421L-AMMO JA101TP-Q 2SA733-K 2SA933AS 2SA933S 2SA1091-O 2SC3502-F 2SC2808STP-R



LM393P M5216P TDA2822M µPC393C

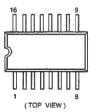


SBX1790-51



SDA5250M-GEG

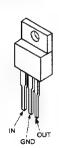
TDA4665T-T

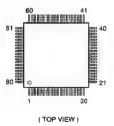


DTA144ES DTC114ES DTC143TS DTC144ES 2SC1740S-RT



LM2940CT-5.0 LM2940T-9.0 MCT7809CT NJM78M09FA µPC2405HF



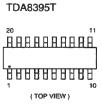


SE135N

TDA7264



DTC144EK 2SA1037K 2SA1162-G 2SC2412K

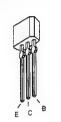


CO R

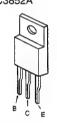
TLP721(D4-)



2SA1175-HFE 2SC2785-HFE



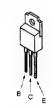
2SA1667 2SA1837 2SC3852A



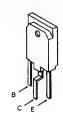
2SC2688-LK



2SC4793



2SC4927-01



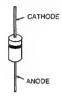
AU-01Z-V1 GP08D EG-1Z-V1 RGP02 EGP20G RGP10GPKG23 RGP15GPKG23 EL1Z RU3YX EM1-V1 EU-1-V1 RU4AM-T3 EU2-V1 **RU4DS**

FML-G12S



MA8330 BAS216 DTZ6.8C **1SS355** UDZ-TE-17-5.6B DTZ9.1





SLA-570KT3F

ANODE -

MTZJ-3.6A

MTZJ-3.9B

MTZJ-5.1B

MTZJ-5.6B

MTZJ-6.2B

MTZJ-6.8B

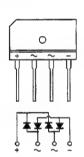
MTZJ-7.5C

MTZJ-39C

MTZJ-T-77-9.1A MTZJ-10



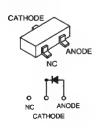
D4SB60L

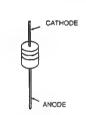


FMS-3FU



MA3030H(TX)





CATHODE

RD3.9ESB2

RD5.1ESB2

RD5.6ESB2

RD6.2ESB2

RD6.8ESB2

RD7.5ESB2

RD10ESB2

RD39ES-B2

1SS133T-77

SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they
 are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

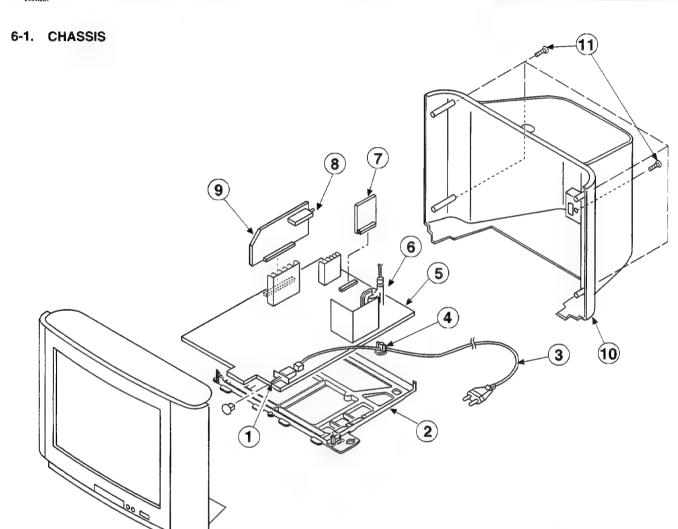
The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.

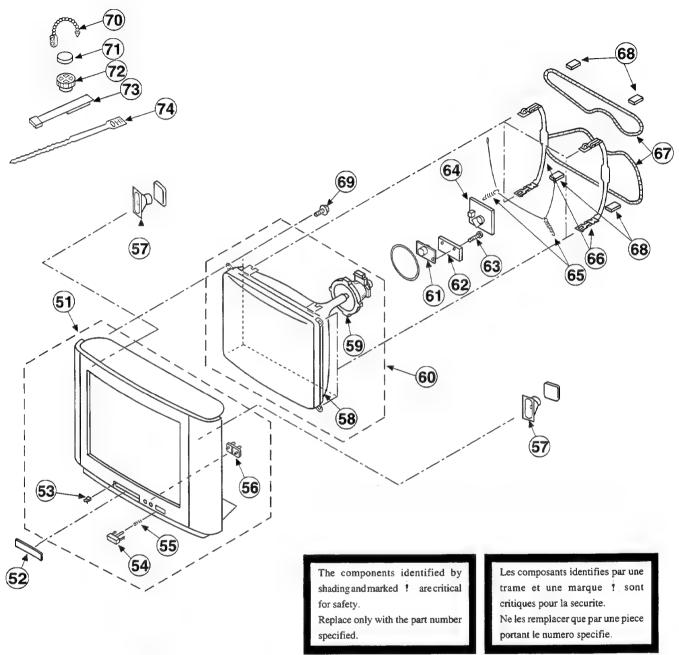
Ne les remplacer que par une piece

portant le numero specifie.



REF NO	PART NO	DESCRIPTION	REMARK	REF NO	PART NO	DESCRIPTION REM
1 2 3	1-571-433-21 *4-202-998-11 1-751-680-11	SWITCH, FUSH (AC POWER) BRACKET, MAIN CORD, POWER (WITH NOISE F 2.5A/250V (KV-29C1A/29		8	1-693-338-11	TUNER/VIF (AEP) (KV-29Cla/29ClD/29ClD 1/29ClE/29 29ClR)
	↑ 1-690-270-21	CORD, POWER (WITH CONNECT 2.5A/250V(KV-29C1B/29C1B/	OR)	9	1-693-340-11 *A-1632-423-A *A-1632-425-A	TUNER/VIF (FR) (KV-29C1B) A BOARD, COMPLETE (KV-29C1A) A BOARD, COMPLETE (KV-29C1B)
4 5	*4-202-531-01 *A-1642-165-A	AC CORD LOCK (SC) D BOARD, COMPLETE (KV-29C1A/29C1B/29C1D/2	9C1E/29C1K/		*A-1632-422-A *A-1632-424-A *A-1632-426-A	A BOARD, COMPLETE (KV-29C1D/29C1) A BOARD, COMPLETE (KV-29C1E) A BOARD, COMPLETE (KV-29C1K)
· · · · ·	*A-1642-188-A	29C1R) D BOARD, COMPLETE (KV-29C		10	*A-1632-427-A 4-202-993-01	A BOARD, COMPLETE (KV-29C1R) COVER, REAR
7	*A-1640-214-A	TRANSFORMER ASSY, FLYBACK D2 BOARD, COMPLETE	(UX-16U4A2)	11	4-039-358-01	SCREW (4x16), (+) BV TAPPING

6-2. PICTURE TUBE



REMARK REMARK **REF NO** PART NO DESCRIPTION **REF NO** PART NO DESCRIPTION *A-1638-082-A C BOARD, COMPLETE 51 BEZNET ASSY 53-56 X-4200-253-1 52 4-203-340-01 DOOR 65 4-369-318-31 SPRING, TENSION CLIP, DGC (29") COIL, DEGAUSSING 53 66 4-202-415-01 4-392-036-01 CATCHER, PUSH (KV-29C1A/29C1B/29C1D/29C1E/29C1K/ 67 1-406-807-11 CUSHION, DGC SCREW (M), PT 68 *4-203-390-01 29C1R) 4-036-188-01 CATCHER, PUSH (KV-29C1D 1) 69 4-047-464-01 5**4** 5**5** 70 4-308-870-00 CLIP, LEAD WIRE 4-203-339-01 BUTTON, POWER 71 1-452-032-00 MAGNET, DISK; 10MM Ø 4-202-964-01 SPRING MAGNET, ROTATABLE DISK; 15MM Ø 56 57 58 59 60 61 62 *4-203-338-11 GUIDE, LIGHT 72 1-452-094-00 SPEARER (5x11CM)
PICTURE TUBE (SD-269) (M68LCT60X)
DEFLECTION YOKE (Y29GXA2B) 1-504-146-11 8-733-856-05 73 X-4387-214-1 PERMALLOY ASSY, CORRECTION 3-701-007-00 BAND, BINDING 8-451-467-11 8-733-856-71 58 -59 ITC NECK ASSY (NA297-M) 8-453-005-11 *A-1644-070-A VM BOARD, COMPLETE SCREW(3x8), (+) BV TAPPING 4-639-357-01

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked \oplus are critical for safety.

Replace only with the part number specified.

Les composants identifies par une trame et une marque in sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie. Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 RESISTORS

- All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

MF: mF, PF: mmF

MMH: mH, µH: mH



								/ •
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
	*A-1632-423-A	A BOARD, COMPLETE (KV-29C	1A)	C120	1-163-117-00		5%	50V
	*A-1632-425-A	A BOARD, COMPLETE (KV-29C	1B)	C121 C122 C123	1-163-113-00 1-163-137-00 1-163-113-00	CERAMIC CHIP 680FF CERAMIC CHIP 680FF CERAMIC CHIP 68PF	5% 5% 5%	50V 50V 50V
	*A-1632-422-A	A BOARD, COMPLETE (KV-29C	1D/29C1D 1)				34	204
	*A-1632-424-A	A BOARD, COMPLETE (KV-29C	1E)	C124 C201	1-137-399-11 1-163-139-00	FILM 0.1MF CERAMIC CHIP 820PF	5% 5%	50V 50V
		A BOARD, COMPLETE (KV-29C	•	C202 C203	1-164-004-11	CERAMIC CHIP 0.1MF	10%	· 25V
		*******	,	C204	1-126-933-11 1-163-038-00	ELECT 100MF CERAMIC CHIP 0.1MF	20%	16V 25V
	*A-1632-427-A	A BOARD, COMPLETE (KV-29C	1R)	C205	1-126-965-11	ELECT 22MF	20%	50V
	1 750 707 11	COCUER DI CO		C206	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V
	1-/50-/9/-11	SOCKET, PLCC		C207 C208	1-164-505-11 1-164-506-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 4.7MF		16V 16V
	< CAF	PACITOR >		C209	1-164-505-11	CERAMIC CHIP 2.2MF		16V
01	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C210	1-216-295-00	METAL GLAZE 0 5%	1/10W	
:2 :3	1-126-965-11 1-163-104-00		20% 50V 5% 50V	C211 C212	1-164-506-11 1-164-346-11	CERAMIC CHIP 4.7MF CERAMIC CHIP 1MF		16V 16V
24 28	1-163-104-00 1-163-038-00		5% 50V 25V	C213	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
				C214	1-164-346-11	CERAMIC CHIP 1MF		16V
10 11	1-163-243-11 1-163-243-11		5% 50V 5% 50V	C215 C216	1-163-133-00 1-126-967-11	CERAMIC CHIP 470PF ELECT 47MF	5% 20%	50V 16V
15	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C217	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
:18 :19	1-163-038-00 1-163-989-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.033MF	25V 10% 25V	C218 C219	1-126-967-11 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.01MF	20% 10%	16V 50V
20	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C220	1-164-506-11	CERAMIC CHIP 4.7MF		16V
21	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C221	1-164-505-11	CERAMIC CHIP 2.2MF		16V
22 40	1-163-117-00 1-163-989-11		5% 50V 10% 25V	C222 C223	1-164-346-11 1-163-133-00	CERAMIC CHIP 1MF CERAMIC CHIP 470PF	5%	16V 50V
41	1-163-989-11		10% - 25V	C224	1-164-346-11	CERAMIC CHIP 1MF	J.0	16V
42	1-163-989-11		10% 25V	C225	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
43 44	1-163-121-00 1-163-989-11		5% 50V 10% 25V	C226 C227	1-126-967-11 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.01MF	20% 10%	16V 50V
45	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C228	1-126-967-11		20%	16V
80	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C229	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
81	1-164-005-11		25V	C230	1-216-295-00		1/10W	
82 90	1-163-037-11	CERAMIC CHIP 0.022MF : CERAMIC CHIP 0.1MF	10% 50V 25V	C231 C232	1-163-038-00 1-126-967-11	CERAMIC CHIP 0.1MF ELECT 47MF	20%	25V 16V
101	1-163-038-00	CERAMIC CHIP 0.1MF	25♥	C251	1-163-087-00	CERAMIC CHIP 4PF	0.25PF	
102	1-126-934-11	ELECT 220MF	20% 16V	C252	1-163-087-00	CERAMIC CHIP 4PF	0.25PF	' 50V
103 104	1-126-965-11		20% 50V	C253	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
104	1-163-117-00	CERAMIC CHIP 100PF	5% 50V (KV-29C1B)	C254 C255	1-163-109-00 1-163-117-00	CERAMIC CHIP 47PF CERAMIC CHIP 100PF	5% 5%	50V 50V
110	1-126-967-11		20% 16V	C256	1-163-038-00	CERAMIC CHIP 0.1MF		25V
112	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C257	1-126-965-11	ELECT 22MF	20%	5 0 7
113	1-126-967-11	ELECT 47MF	20% 16V	C258	1-126-964-11	ELECT 10MF	20%	50V



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMA	<u>ARK</u>
C259 C260 C261 C262	1-164-336-11 1-163-038-00 1-163-133-00 1-163-133-00	CERAMIC CHIP 0.33MF CERAMIC CHIP 0.1MF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	5% 5%	25V 25V 50V 50V	C340 C341 C342 C343		ELECT 100MF CERAMIC CHIP 0.47MF CERAMIC CHIP 1MF CERAMIC CHIP 0.0047MF	20% 16V 25V 16V 10% 50V	
C263 C264 C265 C266 C267	1-163-038-00 1-126-962-11 1-126-964-11 1-126-964-11 1-126-965-11	ELECT 10MF	20% 20% 20% 20%	25V 50V 50V 50V	C344 C347 C348 C350 C351	1-163-117-00 1-164-005-11 1-163-038-00 1-126-964-11 1-164-505-11	CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF ELECT 10MF CERAMIC CHIP 2.2MF	5% 50V 25V 25V 20% 50V 16V	
C268 C269 C270 C271 C272	1-163-131-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 390PF CERAMIC CHIP 390PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5% 5%	25V 50V 50V 50V	C352 C353 C354 C355 C356	1-164-005-11 1-164-505-11 1-164-005-11 1-126-965-11 1-164-232-11	CERAMIC CHIP 0.47MF ELECT 22MF	25V 16V 25V 20% 50V 10% 50V	, ,
C273 C274 C275 C276 C277	1-163-141-00 1-163-141-00 1-164-346-11 1-164-346-11 1-164-346-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF CERAMIC CHIP 1MF	5% 5%	50V 50V 16V 16V 16V	C357 C358 C359 C360	1-163-231-11 1-163-231-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF	5% 50V 25V 5% 50V 5% 50V	, ,
C278 C279	1-164-346-11 1-126-965-11	CERANIC CHIP 1MF ELECT 22MF	20%	16V 50V	C370		CERAMIC CHIP 2.2MF (KV-29C1B/29C1D/29C1 29C1R)		C1K/
C280 C281	1-163-038-00 1-126-965-11	CERAMIC CHIP 0.1MF ELECT 22MF	20%	25V 50V	C371	1-163-141-00		5% 50V 10% 25V	
C282	1-163-038-00	CERAMIC CHIP 0.1MF		25V 25V	C372	1-164-004-11	CERAMIC CHIP 0.1MF (KV-29C1B/29C1D/29C1 29C1R)		
C301 C302 C303 C304 C305	1-163-038-00 1-163-141-00 1-163-141-00 1-163-038-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 5%	50V 50V 25V 25V	C373	1-164-489-11	CERAMIC CHIP 0.22MF (KV-29C1B/29C1D/29C1 29C1R)		C1K/
C306 C307 C308 C309	1-164-232-11 1-164-346-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10% 10%	50V 50V 50V 16V	C1001 C1002 C1010 C1014 C1020	1-163-235-11 1-163-235-11 1-163-038-00 1-163-038-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 0.1NF CERAMIC CHIP 0.1NF	5% 50V 5% 50V 25V 25V 5% 50V	† † †
C310	1-164-346-11	CERAMIC CHIP IMP		104		< FII	LTER >		
C311 C312		CERAMIC CHIP 2.2MF	5%	16V 16V 50V	CF120	1-409-327-00	TRAP, CERAMIC (6.5MHz)	(KV-29C1B)	
C313 C315 C317	1-163-141-00 1-216-295-00 1-163-038-00	METAL GLAZE 0 5% CERAMIC CHIP 0.1MF					INECTOR >		
C319 C320 C321 C322	1-163-989-11 1-126-965-11 1-164-232-11	CERAMIC CHIP 0.033MF	10% 20% 10% 10%	25V 50V 50V 25V	CN1 CN2 CN201 CN301	*1-568-880-51 1-766-296-11	CONNECTOR, BOARD TO BOA PLUG, CONNECTOR 5P CONNECTOR, DUAL SCART PIN, CONNECTOR 7P	RD 50P	
C323		CERAMIC CHIP 0.1MF	10%	25V		< DIC	ODE >		
C324 C325 C326 C327 C328	1-164-346-11		10% 5% 5% 20%	25V 16V 50V 50V 50V	D2 D10 D11 D12 D101	8-719-158-15 8-719-158-15 8-719-158-15	DIODE 1SS355 DIODE RD5.6S-B DIODE RD5.6S-B DIODE RD5.6S-B DIODE RD5.6S-B		
C329 C330 C331 C332 C333	1-130-777-00 1-137-581-11	FILM 0.1MF CERAMIC CHIP 0.01MF	10% 5% 5% 10% 20%	50V 63V 100V 50V 16V	D201 D202 D203 D204 D205	8-719-977-22 8-719-977-22 8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		
C334 C335 C336 C337 C338	1-164-004-11 1-163-017-00 1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.01MF CERAMIC CHIP 1MF	10% 10% 10% 10%	50V 25V 50V 50V 16V	D206 D207 D208 D209 D210	8-719-977-22 8-719-977-22 8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		
C339	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	D211	8-719-977-22	DIODE DTZ9.1		

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
D212		DIODE DTZ9.1		Q18	8-729-901-01	TRANSISTOR DTC144	EK	
D213 D214 D215	8-719-977-22 8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		Q80 Q81 Q110	8-729-216-22 8-729-920-74	TRANSISTOR 2SC241 TRANSISTOR 2SA116 TRANSISTOR 2SC241	2-G 2K-QR	
D216 D217 D218 D220	8-719-158-15 8-719-158-15	DIODE RD5.6S-B DIODE RD5.6S-B DIODE RD5.6S-B DIODE 1SS355		Q111 Q112 Q113	8-729-920-74	TRANSISTOR 2SA116 TRANSISTOR 2SC241 TRANSISTOR 2SA116	2K-QR	
D221	8-719-988-62	DIODE 1SS355		Q114 Q120	8-729-216-22 8-729-920-74	TRANSISTOR 2SA116 TRANSISTOR 2SC241	2-G 2K-QR	
D222 D223 D224 D225	8-719-977-22 8-719-977-22	DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1 DIODE DTZ9.1		Q121 Q122 Q124	8-729-920-74	TRANSISTOR 2SC241: TRANSISTOR 2SC241: TRANSISTOR 2SC241:	2K-QR	
D226		DIODE DTZ9.1		Q130 Q201	8-729-216-22 8-729-920-74	TRANSISTOR 2SA116 TRANSISTOR 2SC241	2-G (F 2K-QR	
D227 D251 D320	8-719-047-16 8-719-977-22			Q202 Q203	8-729-920-74	TRANSISTOR 2SC241:	2K-QR	
D370	8-719-047-16	DIODE BAS216 (KV-29C1B/29C1) 29C1R)	D/29C1D 1/29C1E/29C1K/	Q204 Q205 Q206 Q207	8-729-901-01 8-729-216-22	TRANSISTOR 2SC241: TRANSISTOR DTC144: TRANSISTOR 2SA116: TRANSISTOR 2SA116:	EK 2-G	
	< LIN	E FILTER >		Q304		TRANSISTOR 25C241		
FL101 FL201 FL202 FL203	1-236-071-11 1-236-071-11	ENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED COMENCAPSULATED	PONENT PONENT	Q305 Q306 Q330 Q331	8-729-920-74 8-729-216-22 8-729-920-74	TRANSISTOR 2SC241: TRANSISTOR 2SC241: TRANSISTOR 2SA116: TRANSISTOR 2SC241:	R-QR G-G K-QR	
	< IC	>		Q332 01002		TRANSISTOR 2SC241	~	
IC1 IC2	8-759-334-20	IC SDA5250M-GEG IC ST24E32M6TR	rmar.	21002		ISTOR >	- · · · ·	
IC3 IC4 IC201	8-759-394-57	IC TMS27PC010A-11 IC PST593C-MMP-41 IC CXA2040Q-T4		JR101 JR201	1-216-295-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0	5% 5%	1/10W 1/10W
IC202		IC MSP3410-15 (K) IC MSP3400C-PS (KV-29C1A/29C)	V-29C1B/29C1E) 1D/29C1D 1/29C1K/29C1R)	R1 R2 R3	1-216-295-00 1-216-025-00 1-216-025-00	METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W
IC203 IC301		IC MC14052 BDR2 IC CXA2000Q-TL	,	R4 R5	1-216-013-00 1-216-065-00	METAL GLAZE 33	5% 5%	1/10W 1/10W
IC302 IC303	8-759-288-85 8-759-251-56	IC TDA4665T-T IC TDA8395T (KV-29C1B/29C1) 29C1R)	D/29C1D 1/29C1E/29C1E/	R7 R8 R9 R10	1-216-041-00 1-216-065-00 1-216-041-00 1-216-041-00	METAL GLAZE 4.71 METAL GLAZE 470 METAL GLAZE 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
	< COI	L >		R11 R12	1-216-041-00		5% 5%	1/10W 1/10W
L10 L102 L111 L120 L121	1-408-406-00	INDUCTOR CHIP 10 INDUCTOR 8	.8UH .6UH (KV-29C1B) UH .2UH UH	R13 R14 R15 R16	1-216-029-00 1-216-029-00 1-216-029-00 1-216-025-00	METAL GLAZE 150 METAL GLAZE 150 METAL GLAZE 150	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
L122	1-408-408-00		. 2UH	R17 R18 R19	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W
	< TRA	NSISTOR >		R20 R21	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE 100	5% 5%	1/10W 1/10W
Q1 Q4 Q5 Q10 Q11	8-729-920-74 8-729-920-74 8-729-216-22	TRANSISTOR 2SC24: TRANSISTOR 2SC24: TRANSISTOR 2SC24: TRANSISTOR 2SA110 TRANSISTOR 2SA110	12K-QR 12K-QR 52-G	R24 R25 R28 R29	1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE 4.71 METAL GLAZE 4.71 METAL GLAZE 4.71 METAL GLAZE 4.71	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
Q12 Q15 Q16 Q17	8-729-901-01 8-729-901-01	TRANSISTOR 2SA110 TRANSISTOR DTC144 TRANSISTOR DTC144 TRANSISTOR DTC144	iek iek	R30 R31 R32 R33	1-216-065-00 1-216-065-00 1-216-025-00 1-216-025-00	METAL GLAZE 4.71 METAL GLAZE 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W



REF.NO.	PART NO.	DESCRIPTIO	N		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N		REMARK
R34 R35	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R106 R110	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W
R36 R37 R38 R39 R40	1-216-065-00 1-216-065-00 1-216-065-00 1-216-073-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 10K 5.6K		1/10W 1/10W 1/10W 1/10W 1/10W	R111 R112 R113 R114 R115	1-216-029-00 1-216-029-00 1-216-001-00 1-216-029-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 150 10 150 330	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R42 R44 R46 R47 R48	1-216-069-00 1-216-069-00 1-216-095-00 1-216-057-00 1-216-121-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 6.8K 82K 2.2K 1M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R116 R117 R118 R119 R120	1-216-065-00 1-216-055-00 1-216-071-00 1-216-033-00 1-216-069-00		4.7K 1.8K 8.2K 220 6.8K		1/10W 1/10W 1/10W 1/10W 1/10W
R49 R50 R51 R52 R53	1-216-025-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 4.7K 4.7K 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R121 R122 R123 R124 R125	1-216-073-00 1-216-041-00 1-216-031-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 470 180 1K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R54 R58	1-216-025-00 1-216-063-91	METAL GLAZE METAL GLAZE	100 3.9K	5% 5%	1/10W 1/10W	R126	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-29C1B)
R59 R60 R61	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 5% 5%	1/10W 1/10W 1/10W	R127 R128 R129	1-216-081-00 1-216-035-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 270 330	5% 5% 5%	1/10W 1/10W 1/10W
R62 R63	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R130	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-29C1B)
R64 R65	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R131	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-29C1B)
R66	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R132	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-29C1B)
R67 R69 R70	1-216-057-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 100 100	5% 5% 5%	1/10W 1/10W 1/10W	R133	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-29C1B)
R71 R72	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R134	1-216-001-00	METAL GLAZE	10	5%	1/10W (KV-29C1B)
R73 R74	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R135	1-216-045-00	METAL GLAZE	680	5%	1/10W (KV-29C1B)
R75 R76	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R136	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-29C1B)
R77	1-216-025-00	METAL GLAZE	100	5%	1/10W	R137	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-29C1B)
R78 R79 R80	1-216-025-00 1-216-033-00	METAL GLAZE	100 220	5% 5% 5%	1/10W 1/10W	R138	1-216-041-00	metal glaze	470	5%	1/10W (KV-29C1B)
R81	1-216-081-00		1K 22K	5%	1/10W 1/10W	R200	1-216-049-00		1K	5%	1/10W
R82	1-216-065-00		4.7K		1/10W	R201 R202	1-216-033-00 1-216-033-00	METAL GLAZE	220 220	5% 5%	1/10W 1/10W
R83 R84	1-216-073-00 1-216-081-00		10K 22K	5% 5%	1/10W 1/10W	R203 R204	1-216-025-00 1-216-025-00		100 100	5% 5%	1/10W 1/10W
R85 R86	1-216-073-00 1-216-077-00		10K 15K	5% 5%	1/10W 1/10W	R205	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R87	1-216-081-00		22K	5%	1/10W	R206 R208	1-216-033-00 1-216-041-00	METAL GLAZE	220 470	5% 5%	1/10W 1/10W
R88	1-216-296-00		0	5%	1/8W	R209	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R91 R92	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W	R210	1-216-017-91		47	5%	1/10W
R93 R94	1-216-029-00 1-216-001-00	METAL GLAZE	150 10	5% 5%	1/10W 1/10W	R211 R212 R213	1-216-033-00 1-216-022-00 1-216-022-00	METAL GLAZE	220 75 75	5% 5% 5%	1/10W 1/10W 1/10W
R95 R97	1-216-033-00 1-216-295-00		220 0	5% 5%	1/10W 1/10W	R214 R216	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W
R98	1-216-295-00	METAL GLAZE	0	5%	1/10W						
R101 R102	1-216-061-00 1-216-025-00	METAL GLAZE METAL GLAZE	3.3K 100	5% 5%	1/10W 1/10W	R217 R218	1-216-113-00 1-216-025-00	METAL GLAZE	470K 100	5% 5%	1/10W 1/10W
R103	1-216-025-00		100	5%	1/10W	R219 R220	1-216-113-00 1-216-295-00	METAL GLAZE	470K 0	5%	1/10W 1/10W
R104 R105	1-216-073-00 1-216-113-00		10K 470K	5% 5%	1/10W 1/10W	R221	1-216-039-00	METAL GLAZE	390	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	4	REMARK	REF.NO.	PART NO.	DESCRIPTIO)N		REMARK	
R222 R223 R224 R225 R226	1-216-089-00 1-216-295-00 1-216-039-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 55 0 55 390 55 47K 55 220 55	% 1/10W % 1/10W % 1/10W	R327 R328 R329 R330 R331	1-216-025-00 1-216-129-00 1-216-089-00 1-216-025-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 2.2M 47K 100 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R227 R228 R229 R230 R232	1-216-022-00 1-216-022-00 1-216-033-00 1-216-022-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 55 75 220 55 75 100 55	% 1/10W % 1/10W % 1/10W	R312 R313 R314 R332 R333	1-216-295-00 1-216-295-00 1-216-295-00 1-216-025-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 100 12K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R233 R234 R235 R236 R237	1-216-025-00 1-216-113-00 1-216-025-00 1-216-113-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 59 470K 59 100 59 470K 59 0 59	6 1/10W 6 1/10W 5 1/10W	R334 R335 R336 R337 R338	1-216-041-00 1-208-806-11 1-216-109-00 1-216-025-00 1-216-051-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 330K 100 1.2K	5% 0.50% 5% 5% 5%	1/10W 5 1/10W 1/10W 1/10W 1/10W	
R238 R239 R240 R241 R242	1-216-089-00 1-216-039-00 1-216-295-00 1-216-089-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 59 390 59 0 59 47K 59 390 59	k 1/10W k 1/10W k 1/10W	R339 R340 R341 R342 R343	1-216-049-00 1-216-025-00 1-216-025-00 1-216-049-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 100 1K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R243 R244 R245 R246 R247	1-216-033-00 1-216-033-00 1-216-073-00 1-216-053-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 59 220 59 10K 59 1.5K 59 1.5K 59	t 1/10W t 1/10W t 1/10W	R344 R345 R346 R347 R348	1-216-067-00 1-216-025-00 1-216-063-91 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 100 3.9K 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R249 R255 R256 R270 R271	1-216-001-00 1-216-025-00 1-216-025-00 1-216-022-00 1-216-022-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 59 100 59 100 59 75 59 75 59	b 1/10W b 1/10W b 1/10W	R349 R350 R351 R352 R353	1-216-025-00 1-216-042-00 1-216-053-00 1-216-077-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 510 1.5K 15K 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R272 R273 R280 R281 R282	1-216-022-00 1-216-022-00 1-216-049-00 1-216-089-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	75 59 75 59 1K 59 47K 59 68K 59	1/10W 1/10W 1/10W	R354 R357 R370 R1001 R1002	1-216-033-00 1-216-049-00 1-216-295-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 0 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R283 R284 R285 R286 R300	1-216-049-00 1-216-089-00 1-216-093-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 59 47K 59 68K 59 1K 59 100 59	5 1/10W 5 1/10W 6 1/10W	R1010 R1012 R1014 R1020 R1021	1-216-295-00 1-216-041-00 1-216-065-00 1-216-097-00 1-216-029-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 470 4.7K 100K 150	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R301 R302 R303 R308 R309	1-216-033-00 1-216-295-00 1-216-295-00 1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 59 0 59 0 59 100 59 220 59	1/10W 1/10W 1/10W	R1022 R1023 R1024 R1026 R1027	1-216-029-00 1-216-029-00 1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 150 100 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R310 R311 R312 R313 R314	1-216-033-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 0 5% 0 5% 0 5% 0 5%	5 1/10W 5 1/10W 5 1/10W	R1028	1-216-025-00 < TUN 1-693-338-11		100 P)	5%	1/10W	
R315 R316 R318 R319 R320	1-216-295-00 1-216-033-00 1-216-689-11 1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 220 5% 39K 5% 22K 5% 100 5%	5 1/10W 5 1/10W 5 1/10W		< CRY	29C1R) TUNER/VIF (FR) (KV-		1/29C1E/29C1K/	
R321 R322 R323 R324 R326	1-216-025-00 1-216-025-00 1-216-033-00 1-216-063-91 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 100 5% 220 5% 3.9% 5% 100 5%	5 1/10W 5 1/10W 5 1/10W	X1 X201 X301 X302 X303	1-760-628-11 1-567-504-11 1-567-505-11	VIBRATOR, CER VIBRATOR, CRY OSCILLATOR, C OSCILLATOR, C VIBRATOR, CER	STAL 1: RYSTAL RYSTAL		Hz	

KV-29C1A/29C1D/29C1D 1/ 29C1E/ 29C1K/29C1R)
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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK		
	A-1652-037-A	IF BOARD, COMPLETE		L/29C1E/	R25 R021	1-216-057-00 1-216-174-00					
	. (2)	DAGTMOD .		,		< VAR	HABLE RESISTOR >				
		PACITOR >		4.500	RV01	1-226-703-11	RES, ADJ, METAL GLAZE	10K			
C01 C02		CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		16V 16V	******	********	****************	******	******		
C03 C04 C05	1-104-957-11 1-135-259-11	ELECT 47MP TANTAL. CHIP 10MF CERAMIC CHIP 0.1MF	20% 20% 10%	16V 6.3V 25V		-29C1B)					
C06		CERAMIC CHIP 0.47ME		16V		< CAF	ACITOR >				
C08 C09	1-164-232-11 1-164-004-11	CERAMIC CHIP 0.01MF	? 10% 10%	50V 25V	C01	1-162-638-11	CERAMIC CHIP 1MF		16V		
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C02	1-164-337-11 1-104-957-11	CERAMIC CHIP 2.2MF BLECT 47MF	20%	16V 16V		
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	C03	1-135-259-11	TANTAL. CHIP 10MF	20%	6.3V		
C15 C16	1-124-282-00	ELECT 22MF CERAMIC CHIP 1MF	20%	25V 16V	C05	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		
C18	1-164-337-11	CERAMIC CHIP 2.2MF		16V	C06		CERAMIC CHIP 0.47MF	4.00	16V		
C19	1-124-937-11	ELECT 10MF	20%	16V	C08		CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	10% 10%	50V 25V		
	< FI	LTER >			C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	. 25V		
CF01	1-404-134-00	TRAP, CERAMIC (5.5)	MHZ)		C11	1-104-004-11	CERAMIC CHIP 0.1MF	10%	: 25V		
CWTO 4					C12 C13		CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10%	- 50V 50V		
SWF04	1-/0/-084-11	FILTER, SURFACE WAY	7.5		C14	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V		
	< IC	>			C15 C16	1-104-957-11 1-162-638-11	ELECT 47MF CERAMIC CHIP 1MF	20%	16V 16V		
IC01	8-759-385-26	IC TDA4472-CFLG3			C17		CERAMIC CHIP 47PF	5%	50V		
	< CO	IL >			C18	1-164-337-11	CERAMIC CHIP 2.2MF	-	16V		
L02	1-408-408-00	INDUCTOR 8.20	тн		C20 C21	1-124-937-11	ELECT 10MF CERAMIC CHIP 4.7MF	20%	16V 16V		
L04 L08	1-408-419-00	INDUCTOR 68U	68UH								
	< VA	RIABLE COIL >			CF01	1-409-430-11	TRAP, CERAMIC				
LV01	1-411-874-11	COIL			SWF01 SWF02	1-760-329-11	FILTER, SURFACE WAVE				
	< TR	ANSISTOR >			SWF03	1-767-083-11	FILTER, SURFACE WAVE				
Q01	8-729-216-22	TRANSISTOR 2SA1162	-G			< TR]	IMMER >				
	< RE	SISTOR >			CT01	1-760-662-11	TRAP, CERAMIC				
JR01		METAL GLAZE 0	5% 1/81		-	< IC	>				
JR02 JR03	1-216-296-91	METAL GLAZE 0 METAL GLAZE 0	5% 1/8% 5% 1/10		ICO1	8-759-069-36	IC MC74HC4046AP				
JR04	1-216-296-91	METAL GLAZE 0	5% 1/87	A		< CO1	PT .				
JR05	1-216-295-00	METAL GLAZE 0	5% 1/10	JW.							
JR07	1-216-295-00	METAL GLAZE 0	5% 1/10	DW	L02 L04	1-408-406-00 1-408-419-00					
R01	1-216-029-00		5% 1/10		L05	1-410-987-11	INDUCTOR CHIP 0.33UH				
R02 R03	1-216-089-91 1-216-089-91	METAL GLAZE 47K METAL GLAZE 47K	5% 1/10 5% 1/10		F06	1-408-399-00	INDUCTOR 1.5UH				
RO4	1-216-057-00	METAL GLAZE 2.2K				< VAI	RIABLE COIL >				
R05	1-216-081-00		5% 1/10		LV01	1-411-874-11	COIL				
R06 R07	1-216-057-00 1-216-025-91	METAL GLAZE 2.2K METAL GLAZE 100	5% 1/10 5% 1/10		!	< TRA	ANSISTOR >				
R08	1-216-174-00	METAL GLAZE 100	5% 1/8	W	001						
R09 R10	1-216-041-00		5% 1/10 5% 1/10		Q01 Q02 Q03	8-729-035-11 8-729-035-11	TRANSISTOR 2SA1162-G TRANSISTOR BF799-GEG TRANSISTOR BF799-GEG				
R11 R23		METAL GLAZE 1.2K METAL GLAZE 1K	5% 1/10 5% 1/10		Q04	8-729-901-01	TRANSISTOR DTC144EK				
R24		METAL GLAZE 1	5% 1/10								

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REF.NO.	PART NO.	DESCRIPTI	ON		REMARK	REF.NO.	PART NO.	DESCRIPTION	NC			REMARK
	< RES	SISTOR >				1	< DIC	ODE >				
JR01 JR02 JR03 JR04 JR05	1-216-296-91 1-216-296-91 1-216-295-00 1-216-296-91 1-216-295-00	METAL GLAZE METAL GLAZE	0 5 0 5 0 5	% 1/8W % 1/8W % 1/10 % 1/8W % 1/10	W	D701 D702 D706 D707 D708	8-719-109-72 8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE RD3.9E DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133	T-77 T-77 T-77			
JR07	1-216-295-00	METAL GLAZE	0 5	% 1/10	W	D709 D710	8-719-991-33 8-719-991-33	DIODE 1SS133				
R01 R02 R03 R04 R05	1-216-029-00 1-216-089-91 1-216-089-91 1-216-057-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 5 47K 5 47K 5 2.2K 5	% 1/10 % 1/10 % 1/10	W W	D710 D711 D714 D715	8-719-391-33 8-719-991-33 8-719-991-33		T-77 T-77			
R06 R07 R08 R09	1-216-057-00 1-216-025-91 1-216-174-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5 100 5 100 5 680 5	% 1/10 % 1/10 % 1/8W % 1/10	w W	D717 D718 D719 D720	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133 DIODE 1SS133 DIODE 1SS133 DIODE 1SS133	T-77 T-77 T-77			
R10	1-216-041-00	METAL GLAZE	470 5	% 1/10	W		< CRI	SOCKET >				
R11 R12 R13	1-216-051-00 1-216-063-91 1-216-061-00	METAL GLAZE METAL GLAZE	1.2K 5' 3.9K 5' 3.3K 5'	% 1/10 % 1/10	W	J701 A	1-526-990-22 < COI	•			•	
R14 R15	1-216-023-00 1-216-017-91	METAL GLAZE METAL GLAZE	82 5 47 5			L704	1-408-609-41	INDUCTOR	33UH			
R16 R17	1-216-033-00		220 5 47 5				< TRA	NSISTOR >				
R18 R20 R23	1-216-017-91 1-216-013-00 1-216-222-00 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	33 5 10K 5 1K 5	1/10 1/8W 1/10	W	Q702 Q703 Q704 Q705	8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78	TRANSISTOR 2:	F871-127 SA1091-0 SC2785-H) I FE		
R25 R21	1-216-057-00 1-216-174-00		2.2K 5			Q706	8-729-906-70	TRANSISTOR B	F871-127			
RV01 RV02	< VAR 1-226-703-11 1-226-703-11		TAL GLAZE			Q707 Q708 Q709 Q710 Q711	8-729-200-17 8-729-119-78 8-729-906-70 8-729-200-17 8-729-173-38	TRANSISTOR 2: TRANSISTOR B: TRANSISTOR 2:	SC2785-H F871-127 SA1091-0	ife		
******	********	**********	******	*******	******		< RES	SISTOR >				
	*A-1638-082-A	C BOARD, CON				R704 R705 R706	1-216-486-00 1-202-822-00 1-247-815-91	SOLID	2.2K	5% 10% 5%	3W 1/2W 1/4W	F
		PACITOR >				R707 R709	1-249-407-11 1-202-844-00		150 330K	5% 10%	1/4W 1/2W	
C702 C703 C708 C710 C712	1-102-115-00 1-102-116-00 1-162-114-00 1-107-652-11 1-102-116-00	CERAMIC CERAMIC ELECT	560PF 680PF 0.0047MF 10MF 680PF	10% 10% 20% 10%	50V 50V 2KV 250V 50V	R711 R712 R714 R715 R716	1-249-420-11 1-202-822-00 1-216-486-00 1-249-417-11 1-247-815-91	SOLID METAL OXIDE CARBON		10%	1/4W 1/2W 3W 1/4W 1/4W	F
C714 C717 C718 C719 C722	1-126-967-11 1-102-114-00 1-102-114-00 1-102-114-00 1-101-880-00	CERAMIC CERAMIC CERAMIC	47MF 470PF 470PF 470PF 47PF	20% 10% 10% 10% 5%	16V 50V 50V 50V 50V	R717 R718 R720 R722 R723	1-249-407-11 1-202-814-11 1-249-420-11 1-202-848-00 1-249-417-11	CARBON SOLID CARBON SOLID	150 33K 1.8K 680K	5% 10% 5%	1/4W 1/2W 1/4W 1/2W 1/4W	
C723 C724	1-101-880-00 1-101-880-00		47PF 47PF	5% 5%	50 V 50 V	R724	1-202-846-00		470K		1/2W	
0/24		NECTOR >	2711	5.0	301	R726 R727	1-202-822-00 1-247-815-91	SOLID	2.2K		1/2W 1/4W	
CN701 CN702	701 1-778-037-11 PIN, CONNECTOR 6P						1-216-350-11 1-249-407-11			5% 5%	1W 1/4W	Y
CN703	*1-568-882-51					R731 R733 R734 R735	1-249-420-11 1-249-417-11 1-247-807-31 1-249-417-11	CARBON CARBON	100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	

C D2 D

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for safety.

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REF.NO.	PART NO.	DESCRIPTION	DESCRIPTION			PART NO.	DESCRIP	TION		REMARK
R736 R739 R740	1-216-486-00 1-249-417-11 1-249-417-11	CARBON 1K 5%	3W 1/4W 1/4W		C503 C504 C506 C507	1-136-165-00 1-102-824-00 1-126-941-11 1-109-953-11	CERAMIC ELECT	0.1MF 470PF 470MF 2.2MF	5% 5% 20% 20%	50V 50V 25V 50V
R741 R744 R745	1-202-549-00 1-249-421-11 1-249-421-11 1-249-421-11	CARBON 2.2K 5% CARBON 2.2K 5% CARBON 2.2K 5%	1/2W 1/4W 1/4W	i i	C509 C510 C511 C513	1-136-165-00 1-126-969-11 1-136-202-11 1-106-220-00	ELECT FILM MYLAR	0.1MF 220MF 0.33MF 0.1MF	5% 20% 5% 10%	50V 50V 63V 100V
R747 R748 R749	1-249-437-11 1-249-417-11 1-249-435-11 < VAF	CARBON 1K 5%	1/4W 1/4W	Ī	C514 C515 C517 C518 C519	1-136-165-00 1-126-941-11 1-126-941-11 1-102-228-00 1-102-228-00	ELECT	0.1MF 470MF 470MF 470PF 470PF	5% 20% 20% 10% 10%	50V 25V 25V 500V 500V
RV701 RV702	1-241-656-21	RES, ADJ, METAL GLAZE 2. RES, ADJ, METAL FILM 110	M		C520 C521	1-126-941-11	ELECT	470MF	20% 20%	25V 25V
*****		D2 BOARD, COMPLETE	*****	******	C522 C523 C600 A C601 A	1-126-964-11 1-136-165-00 1-113-890-51 1-161-964-91	FILM CERAMIC	10MF 0.1MF 0.0022MF 0.0047MF	20% 5% 20%	50V 50V 250V 250V
C1801 C1803 C1804	1-126-967-11 1-137-368-11 1-126-964-11	FILM 0.0047MF ELECT 10MF	20% 5% 20%	50V 50V 50V	C602 A C603 C604 C605 C606	1-161-964-91 1-125-555-11 1-126-968-11 1-107-929-11 1-162-318-11	ELECT ELECT ELECT	0.0047MF 330MF 100MF 10MF 0.001MF	20% 20% 20% 10%	250V 400V 50V 100V 500V
C1807 CN1801 CN1803	1-573-299-21	NNECTOR >	5% ND 10P	50V	C607 C608 C611 C612 C613	1-104-666-11 1-109-880-11 1-102-228-00 1-111-160-91 1-124-347-00	FILM	220MF 0.0015MF 470PF 22MF 100MF	20% 3% 10% 20% 20%	25V 2KV 500V 100V 160V
D1802	< DIC 8-719-110-17 < IC	DIODE RD10ESB2			C614 C615 C616 C617 C618	1-128-526-11 1-111-067-11 1-111-067-11 1-128-339-51 1-136-165-00	ELECT	100MF 0.001MF 0.001MF 2200MF 0.1MF	20% 20% 20% 20% 5%	25V 25V 25V 16V 50V
IC1801 IC1802	8-759-603-37 < LIR	NK IC >			C619 C620 C621 C622 C623	1-102-228-00 1-102-228-00 1-136-165-00 1-107-925-11 1-104-666-11	CERAMIC FILM ELECT	470PF 470PF 0.1MF 1MF 220MF	10% 10% 5% 20% 20%	500V 500V 50V 100V 25V
JW1802 A		LINK, IC (0.4A) SISTOR > CARBON 5.6K 5%	1/4W		C624 C625 C626 C628	1-136-165-00 1-126-967-11 1-104-666-11 1-126-964-11	FILM ELECT ELECT	0.1MF 47MF 220MF 10MF	5% 20% 20% 20%	50V 50V 25V 50V
R1807 R1809 R1810 R1811	1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON 150 K 5% CARBON 10 K 5% CARBON 10 K 5% CARBON 10 K 5%	1/4W 1/4W 1/4W 1/4W		C630 C631 C633 A C634 A C635 A	1-111-097-11 1-111-097-11 1-126-965-11 1-107-564-11 1-107-564-11 1-107-564-11	ELECT ELECT FILM FILM	2200MF 2200MF 22MF 0.22MF 0.22MF 0.22MF	20% 20% 20% 20% 20% 20% 20%	35V 35V 50V 300V 300V 300V
****				C1B/ C1E/	C636 A C638 C640 C644	1-113-890-51 1-136-203-11 1-106-220-00 1-137-043-11	CERAMIC FILM MYLAR	0.0022MF 0.01MF 0.1MF 0.0047MF	20% 5% 10% 10%	250V 630V 100V 400V
		D BOARD, COMPLETE (KV-29 ************************************			C647 C651 C800 C801	1-162-116-00 1-102-228-00 1-137-368-11 1-137-372-11	CERAMIC CERAMIC FILM FILM	680PF 470PF 0.0047MF 0.022MF	10% 10% 5% 5%	2KV 500V 50V 50V
	< CAI	PACITOR >			C802 C804	1-136-161-00 1-136-165-00	FILM FILM	0.047MF 0.1MF	5% 5%	50 V 50 V
C502	1-102-824-00	CERAMIC 470PF	5%	50V	C805	1-136-207-11	FILM	0.047MF	10%	25 0 V

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REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRI	PTION		REMARK
C806 C807	1-104-999-11 1-136-109-00	MYLAR 0.1MF FILM 0.68M		200V 200V	C1218	1-126-934-11	ELECT	220MF	20%	16V
C808 C810	1-137-205-11 1-107-683-11	FILM 0.1MF ELECT 2.2MF		400V 250V			ENECTOR >			
C811 C812 C813 C814 C815	1-102-212-00 1-136-125-00 1-129-722-00 1-136-565-11 1-136-562-11		F 5% MF 10% MF 3%	500V 400V 630V 1.4KV 400V	CN800 CN801	*1-580-844-11 *1-580-798-11 *1-573-296-21	PIN, CONN. PIN, CONN. CONNECTOR CONNECTOR	ECTOR (5MM PI ECTOR (POWER) PIN (DY) 6P , BOARD TO BO	ITCH) 3P	
C816 C817 C818 C819 C820	1-161-754-00 1-161-754-00 1-162-134-11 1-136-208-11 1-102-114-00	CERAMIC 0.001 CERAMIC 0.001 CERAMIC 470PF FILM 0.068 CERAMIC 470PF	MF 10% 10% MF 10%	2KV 2KV 2KV 250V 50V	CN803 CN804 CN807 CN900	1-695-915-11 1-778-037-11 1-568-878-51 1-568-678-11	PIN, CONN PIN, CONN TERMINAL : (KV-	ECTOR 6P ECTOR 3P	29C1D/29C	:1E/29C1K/
C821 C822 C824 C829 C830	1-162-114-00 1-107-662-11 1-123-024-21 1-124-902-00 1-124-902-00	CERAMIC 0.004 ELECT 22MF ELECT 33MF ELECT 0.47M ELECT 0.47M	20% F 20%	2KV 250V 160V 50V 50V	CN902 CN1401 CN1408 CN1420	1-695-299-11 *1-568-880-51 *1-568-879-11 1-568-878-51	PIN, CONNI PIN, CONNI	ECTOR 5P ECTOR 4P	DARD 50P	
						< DIC	DE >			
C832 C834 C835 C836 C838	1-124-903-11 1-128-551-11 1-162-318-11 1-162-117-00 1-102-228-00	ELECT 1MF ELECT 22MF CERAMIC 0.001 CERAMIC 100PF CERAMIC 470PF	10%	50V 25V 500V 500V 500V	D500 D502 D503 D504 D505	8-719-109-85 8-719-979-85 8-719-979-85 8-719-991-33 8-719-982-03	DIODE EGP: DIODE EGP: DIODE 1SS:	20G 20G 133T-77		
C839 C845 C901	1-136-189-00 1-102-110-00 1-101-810-00	FILM 0.1MF CERAMIC 220PF CERAMIC 100PF (KV-29C1A/29C 29C1R)	5%	250V 50V 500V 1E/29C1K/	D506 D507 D600 D601 D603	8-719-991-33 8-719-109-85 8-719-510-53 8-719-046-77 8-719-109-97	DIODE 1SS DIODE RD5 DIODE D4SI DIODE EM1-	133T-77 .1ES-B2 B60L -V1		
C902 C903 C904 C905	1-137-372-11 1-137-372-11 1-104-665-11 1-126-964-11	FILM 0.022 ELECT 100MF	MP 5%	50V 50V 25V 50V	D604 D605 D606	8-719-046-75 8-719-302-43 8-719-302-43	DIODE EU-: DIODE EL1: DIODE EL1:	l-v1 Z		
C906	1-126-964-11	ELECT 10MF (KV-29C1A/29C	20% 1B/29C1D/29C	50V 1E/29C1K/	D607 D608	8-719-046-78 8-719-312-94	DIODE EU2-			
		29C1R)			D609	8-719-301-64				
C907	1-126-964-11	ELECT 10MF (KV-29C1A/29C 29C1R)	20% 1B/29C1D/29C	50V 1E/29C1K/	D610 D611 D612 D613	8-719-046-74 8-719-045-48 8-719-046-76 8-719-045-48	DIODE RUS	-G12S /X-V1		
C908	1-126-964-11	(KV-29C1A/29C	20% 1B/29C1D/29C	50V 1B/29C1K/	D614	8-719-045-48				
C911	1-126-964-11	29C1R) ELECT 10MF	20%	5 0V	D615 D616	8-719-046-75 8-719-110-03	DIODE RD7	.5ESB2		
C913	1-101-810-00	CERAMIC 100PF (KV-29C1A/29C		500V 1E/29C1K/	D617 D618	8-719-991-33 8-719-991-33				
		29C1R)			D619	8-719-991-33				
C1200 C1201	1-136-165-00 1-136-173-00	FILM 0.1MF FILM 0.47M	5% F 5%	50V 50V	D620 D622	8-719-991-33 8-719-923-60				
	7-230-273-00	1100 0.1/2	. 3.0	301	D625	8-719-991-33				
C1202 C1203	1-136-173-00 1-136-169-00	FILM 0.47M FILM 0.22M	F 5%	50V 50V	D626	8-719-046-74				
C1204 C1205	1-136-169-00 1-101-005-00	FILM 0.22M CERAMIC 0.022		50V 50V	D631 D800	8-719-109-93 8-719-991-33				
C1206	1-101-005-00	CERAMIC 0.022		50V	D801	8-719-991-33	DIODE 1SS1	L33T-77		
C1207 C1208	1-126-933-11 1-126-963-11	ELECT 4.7MF	20% 20%	16V 50V	D802 D803	8-719-991-33 8-719-908-03	DIODE GP08	BD		
C1209 C1214	1-126-963-11 1-126-933-11	ELECT 4.7MF ELECT 100MF	20% 20%	50V 16V	D807 D808	8-719-302-43				
C1214 C1215	1-136-173-00			50V	D809	8-719-908-03 8-719-018-82				
					D810	8-719-302-43	DIODE EL12	3		
C1216 C1217	1-137-366-11 1-137-366-11			50V 50V	D812	8-719-038-49	DIODE FMS-	-3FU-LF027-1		



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Delication Content C	REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	-	REI	MARK
B-719-923-60 DIODE MTAI-T-77-9-1A POST DIOTE STATE DIOTE DIOTE	D817	8-719-109-89	DIODE RD5.6ESB2 DIODE SLA-570KT3F (KV-29C1A/29C1B/29C1	D/29C1E/29C1K/	L616 L801 L802	1-412-533-21 1-459-111-00 1-459-104-00	INDUCTOR COIL, DRAM COR COIL, WITH COR	47UH RE (CDI) RE		
December Character Chara	D902		(KV-29C1A/29C1B/29C1 29C1R)	D/29C1E/29C1K/	L804 L805 L809	1-406-903-11 1-406-675-11 1-412-533-21	COIL, HORIZONT COIL, CHOKE 4. INDUCTOR	PAL LINEARIT .7MMH 47UH	ľΆ	
B-719-923-60 DIODE PMY2-T-77-9-1A	D903	8-719-923-60	(KV-29C1A/29C1B/29C1	D/29C1E/29C1K/	L813	1-412-552-21	INDUCTOR	2.2MMH		
D905 8-719-923-60 DIONE NTAL-T-77-9.1A	D904	8-719-923-60	(KV-29C1A/29C1B/29C1	D/29C1E/29C1K/	L902	1-408-603-31	INDUCTOR INDUCTOR	10UH 10UH	ID/29C1E/:	29C1K/
Description Service	D9 0 5	8-719-923-60	DIODE MTZJ-T-77-9.1A (KV-29C1A/29C1B/29C1)	D/29C1E/29C1K/	L904	1-408-409-00	29C1F INDUCTOR	10UH		
F601	D906		(KV-29C1A/29C1B/29C1 29C1R)	D/29C1E/29C1K/		< IC	29C1F		.D/25C1E/2	ZFCIR/
## 1-576-232-21 FURE READ	D1201				PS600 PS601	↑ 1-532-686-91 ↑ 1-532-686-91	LINK, IC 2.7A LINK, IC 2.7A	(ICP-F75) (ICP-F75)	1	
Ferrite Fead					PS603	<u>1-532-686-91</u>	LINK, IC 2.7A	(ICP-F75)		
F8600		< FEF	RRITE BEAD >		0501			1270E UED		
FB606	FB601 FB602 FB604	1-410-397-21 1-410-397-21 1-410-396-41	FERRITE BEAD INDUCTOR 1.10 FERRITE BEAD INDUCTOR 1.10 FERRITE BEAD INDUCTOR 0.45	UH UH SUH	Q502 Q503 Q601	8-729-119-76 8-729-900-89 8-729-025-04	TRANSISTOR 2SA TRANSISTOR DTO TRANSISTOR 2SO	1175-HFE 1144ES 13852A		
C500 8-759-192-71 C STV9379 Q802 8-729-016-32 TRANSISTOR 28C4793 C COLL > Q805 R-729-016-32 TRANSISTOR 28C4927-01 R C COLL > Q805 R-729-016-32 TRANSISTOR 28C4927-01 R C C C C C C C C C C C C C C C C C C	FB606 FB607 FB608	1-410-397-21 1-410-397-21 1-410-396-41	FERRITE BEAD INDUCTOR 1.10 FERRITE BEAD INDUCTOR 1.10 FERRITE BEAD INDUCTOR 0.4	OH OH SOH	Q604 Q605 Q606	8-729-024-35 8-729-119-78 8-729-900-65	TRANSISTOR 2SO TRANSISTOR 2SO TRANSISTOR DTA	22808STP-R 2785-HFE 1144ES		
C500		< IC	>							
C604 8-759-510-52 C L4941BV C1201 8-729-900-74 TRANSISTOR 2SC2785-HFE C1201 8-759-267-25 C LM2940T-9.0 C1202 8-729-900-80 TRANSISTOR DTC143TS C1200 8-747-905-11 RAY CATCHER ELEMENT SBX1790-51 C1200 8-759-250-68 C TDA7264	IC600 IC601 A IC602	8-749-010-84 8-749-924-92 8-749-920-61	IC STR-S6708 IC TLP721(D4-) IC SE135N		Q802 Q803 Q805	8-729-016-32 8-729-119-80 8-729-900-89	TRANSISTOR 2SO TRANSISTOR DTO	4927-01 2688-LK 144ES		
C1201 8-759-502-21 IC TDA2822M R500	IC606 IC800 IC900	8-759-267-25 8-759-103-93 8-747-905-11	IC LM2940T-9.0 IC µPC393C RAY CATCHER ELEMENT SBX17:	90-51	Q1201 Q1202 Q1203	8-729-900-74 8-729-900-80 8-729-900-74	TRANSISTOR DTO TRANSISTOR DTO TRANSISTOR DTO	2143TS 2114BS 2143TS		
R502 1-249-421-11 CARBON 2.2K 5% 1/4W R503 1-249-429-11 CARBON 10K 5% 1/4W R504 1-215-455-00 METAL 27K 1% 1/4W R505 1-249-382-11 CARBON 1.2 5% 1/4W F 1/4W 1/4W										
1-764-606-11 JACK R503 1-249-429-11 CARBON 10K 5% 1/4W R504 1-215-455-00 METAL 27K 1% 1/4W R505 1-249-382-11 CARBON 1.2 5% 1/4W F		< JAC	CK SOCKET >		R500	1-215-457-00	METAL	33K 1%	1/4W	
L502 1-412-519-11 INDUCTOR 3.3UH R506 1-215-439-00 METAL 5.6K 1% 1/4W L503 1-412-519-11 INDUCTOR 3.3UH R507 1-215-888-00 METAL OXIDE 220 5% 2W F L609 1-412-533-21 INDUCTOR 47UH R508 1-216-371-00 METAL OXIDE 1.5 5% 2W F L611 1-412-527-11 INDUCTOR 15UH R509 1-249-443-11 CARBON 0.47 5% 1/4W F L612 1-412-522-41 INDUCTOR 5.6UH R510 1-249-443-11 CARBON 0.47 5% 1/4W F	J900				R503 R504	1-249-429-11 1-215-455-00	CARBON METAL	10K 5% 27K 1%	1/4W 1/4W	
	L503 L609 L611 L612	1-412-519-11 1-412-519-11 1-412-533-21 1-412-527-11 1-412-522-41	INDUCTOR 3.3UH INDUCTOR 3.3UH INDUCTOR 47UH INDUCTOR 15UH INDUCTOR 5.6UH		R506 R507 R508 R509 R510	1-215-439-00 1-215-888-00 1-216-371-00 1-249-443-11 1-249-443-11	METAL METAL OXIDE METAL OXIDE CARBON CARBON	5.6K 1% 220 5% 1.5 5% 0.47 5% 0.47 5%	1/4W 2W F 2W F 1/4W F 1/4W F	

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REF.NO.	PART NO.	DESCRIPTIO	N			REMARK	REF.NO.	PART NO.	DESCRIPTION	ON .			REMARK
R521 R522 R523 R524	1-215-455-00 1-247-863-91 1-247-863-91 1-249-425-11	CARBON	27K 22K 22K 4.7K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R818 R819 R820 R821	1-215-882-00 1-216-345-11 1-249-403-11 1-215-909-11	METAL OXIDE CARBON	22 0.47 68 47	5% 5% 5% 5%	2W 1W 1/4W 3W	F F
R525 R526 R527 R600 R601	1-249-425-11 1-249-421-11 1-215-437-00 1-216-490-11 1-249-417-11	CARBON METAL METAL OXIDE	4.7K 2.2K 4.7K 39K 1K	5% 5% 1% 5%	1/4W 1/4W 1/4W 3W 1/4W	F	R822 R824 R826 R827 R828	1-215-868-00 1-249-420-11 1-247-752-11 1-249-425-11 1-249-430-11	CARBON CARBON CARBON	680 1.8K 1K 4.7K 12K	5% 5% 5% 5%	1W 1/4W 1/2W 1/4W 1/4W	F
R602 R603 R604 R605 R607	1-215-473-00 1-215-898-11 1-249-420-11 1-216-362-11 1-216-421-11	CARBON METAL OXIDE	10K	15 5% 5% 5%	1/4W 2W 1/4W 2W 1W	F F	R829 R830 R833 R835 R836	1-249-493-11 1-217-778-11 1-247-887-00 1-216-471-11 1-249-439-11	FUSIBLE CARBON	56K 1K 220K 27 68K	5% 5% 5% 5%	1/2W 1W 1/4W 3W 1/4W	F
R608 R610 R611 R612 R613	1-216-365-00 1-215-421-00 1-216-354-11 1-249-428-11 1-249-417-11	METAL OXIDE CARBON	0.47 1K 2.7 8.2K 1K	5% 1% 5% 5% 5%	2W 1/4W 1W 1/4W 1/4W	F	R837 R840 R841 R842 R843	1-249-427-11 1-247-807-31 1-249-418-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	6.8K 100 1.2K 100K 100K	5%	1/4W 1/4W 1/4W 1/4W 1/4W	F F
R614 R615 R616 R617 R618	1-215-877-11 1-249-435-11 1-215-471-00 1-215-901-00 1-247-863-91	CARBON METAL METAL OXIDE	22K 33K 120K 33K 22K	5% 5% 1% 5%	1W 1/4W 1/4W 2W 1/4W	F	R846 R847 R848 R849 R850	1-247-885-91 1-247-895-91 1-249-863-91 1-249-429-11 1-249-425-11	CARBON CARBON CARBON	180K 470K 22K 10K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R619 R620 R621 R622 R623	1-216-425-11 1-260-131-11 1-216-425-11 1-249-437-11 1-249-429-11	CARBON METAL OXIDE CARBON	56 470K 56 47K 10K	5% 5% 5% 5%	1W 1/2W 1W 1/4W 1/4W	F	R851 R852 R900 R901 R902	1-215-898-11 1-249-432-11 1-247-815-91 1-247-734-11 1-247-734-11	CARBON CARBON	10K 18K 220 39	5% 5% 5% 5%	2W 1/4W 1/4W 1/2W 1/2W	F
R624 R625 R626 R627 R628	1-249-393-11 1-249-434-11 1-249-430-11 1-216-347-11 1-249-415-11	CARBON CARBON METAL OXIDE	10 27K 12K 0.68 680	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1W 1/4W	F	R904 R905	1-249-389-11 1-247-804-11	CARBON (KV-29C) 29C)	LR)			F E/29C1K/
R629 A R630 A R631 A R632 R633	1-244-945-91 1-218-265-21 1-205-949-11 1-247-807-31 1-247-807-31	METAL WIREWOUND CARBON		5% 5% 5% 5% 5%	1/2W 1W 10W 1/4W 1/4W		R906 R907	1-247-804-11	(KV-29C) 29C) CARBON	IR) 75 LA/29C1	5%	1/4W	E/29C1K/ E/29C1K/
R634 R635 R636 R637 R638	1-249-397-11 1-249-437-11 1-249-417-11 1-247-815-91 1-247-863-91	CARBON CARBON CARBON	22 47K 1K 220 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	R908 R909 R910 R911 R912	1-249-401-11 1-249-429-11 1-249-422-11 1-249-426-11 1-249-429-11	CARBON CARBON CARBON	47 10K 2.7K 5.6K 10K		1/4W 1/4W 1/4W 1/4W 1/4W	
R639 R642 A R645 R646 R647	1-215-439-00 1-205-949-11 1-249-422-11 1-249-377-11 1-202-933-61	WIREWOUND CARBON CARBON	2.7K 0.47	5% 5%	1/4W 10W 1/4W 1/4W 1/2W		R913 R914 R919	1-247-863-91 1-249-437-11 1-249-437-11	CARBON CARBON		5% 5% 5% B/29C	1/4W 1/4W 1/4W 1D/29C1	E/29C1K/
R649 R800 R802 R803 R805	1-249-426-11 1-249-421-11 1-249-431-11 1-249-424-11 1-249-429-11	CARBON CARBON CARBON	3.9K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	R921 R922 R923	1-249-437-11 1-247-807-31 1-249-412-11	CARBON CARBON		5% 5% 5% .B/29C	1/4W 1/4W 1/4W 1D/29C1	E/29C1K/
R809 R812 R813 R814 R816	1-247-891-00 1-249-421-11 1-215-867-00 1-249-411-11 1-215-917-11	CARBON METAL OXIDE CARBON	330K 2.2K 470 330 1K	5% 5%	1/4W 1/4W 1W 1/4W 3W	F F	R1200 R1201 R1202 R1203 R1204	1-249-425-11 1-249-434-11 1-249-393-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON	4.7K 27K 10 2.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
R817	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F	R1205	1-249-428-11	CARBON	8.2K	5%	1/4W	



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R1206 1-249-428-11 R1208 1-212-849-00	FUSIBLE 4.7 5%	1/4W F		< DIC			
R1209 1-212-849-00 R1211 1-249-424-11	FUSIBLE 4.7 5%	1/4W F 5 1/4W	D1701 D1702 D1703	8-719-110-88	DIODE 1SS133T DIODE RD39ES- DIODE RD39ES-	-B2	
R1212 1-249-424-11 R1213 1-249-421-11 R1216 1-249-413-11	CARBON 2.2K 5%	1/4W		< CO1	[L >		
R1217 1-249-425-11	CARBON 4.7K 5%		L1701 L1702	1-408-409-00 1-408-403-00	INDUCTOR	10UH 3.3UH	
<pre></pre>	LAY > RELAY		L1703 L1704 L1705	1-408-409-00 1-408-418-00 1-408-418-00	INDUCTOR	10UH 56UH 56UH	
	ITCH >				ANSISTOR >		
S900 1-692-979-11 S901 1-692-979-11	SWITCH, PUSH (AC POWER, SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE		Q1701 Q1702 Q1703 Q1704	8-729-119-78 8-729-017-05 8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SC2785-HFE SA1837 SC2785-HFE	
< SP	ARK GAP >		Q1706	8-729-017-06	TRANSISTOR 2S	C4793	
SG801 1-519-422-11			Q1708 Q1709 Q1840	8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2785-HFE	
	ANSFORMER >	* 7 ***		< RES	SISTOR >		
LF600	LFT		R1701 R1702	1-249-417-11 1-249-417-11		1K 5% 1K 5%	1/4W 1/4W
T601	TRANSFORMER, FERRITE (1 TRANSFORMER ASSY, FLYD)	PMT) ACK_(UX-1604A2)	R1702 R1703 R1704 R1705	1-249-421-11 1-249-415-11 1-247-815-91	CARBON CARBON	2.2K 5% 680 5% 220 5%	1/4W 1/4W 1/4W
< TH	ERMISTOR >		R1706 R1708	1-247-815-91 1-249-412-11		220 5% 390 5%	1/4W 1/4W
THP600 A 1-809-827-11	THERMISTOR, POSITIVE		R1712 R1713 R1714	1-260-311-11 1-249-384-11 1-249-414-11	CARBON CARBON	39 5% 1.8 5% 560 5%	1/2W 1/4W F 1/4W F
************	********	******					
*A-1644-070-A	VM BOARD, COMPLETE		R1715 R1716 R1717	1-249-432-11 1-249-417-11 1-216-476-11	CARBON METAL OXIDE	18K 5% 1K 5% 180 5%	1/4W 1/4W F 3W F
*4-368-683-11	SPRING, TRANSISTOR		R1718 R1719	1-249-432-11 1-249-384-11		18K 5% 1.8 5%	1/4W 1/4W F
< CA	PACITOR >		R1720	1-249-400-11		39 5%	1/4W F
C1701 1-126-933-11 C1702 1-128-551-11 C1703 1-126-933-11 C1704 1-137-403-51	BLECT 22MF BLECT 100MF	20% 16V 20% 25V 20% 16V 5% 100V	R1721 R1722 R1724 R1725	1-249-414-11 1-249-401-11 1-249-400-11 1-216-451-11	CARBON CARBON	560 5% 47 5% 39 5% 120 5%	1/4W 1/4W 1/4W 2W F
C1705 1-107-638-11 C1706 1-104-999-11	ELECT 33MF FILM 0.1MF	20% 150V 5% 200V 5% 100V	R1728 R1729 R1730 R1731	1-249-413-11 1-249-413-11 1-249-422-11	CARBON CARBON	470 5% 470 5% 2.7K 5% 330 5%	1/4W 1/4W 1/4W
C1707 1-137-397-11 C1708 1-137-364-11 C1709 1-137-364-11 C1710 1-102-074-00	FILM 0.001MF FILM 0.001MF	5% 50V 5% 50V 10% 50V		1-249-411-11			1/4W *********
C1720 1-107-667-11 C1721 1-137-397-11 C1722 1-126-934-11 C1723 1-161-830-00 C1725 1-128-551-11	FILM 0.047MF ELECT 220MF CERAMIC 0.0047MF	20% 160V 5% 100V 20% 16V 500V 20% 25V					
C1726 1-126-934-11	ELECT 220MF	20% 16V					
< 00	NNECTOR >						
	PIN, CONNECTOR 5P CONNECTOR, BOARD TO BOA	ARD 8P					

DESCRIPTION

Les composants identifies par une trame et une marque i sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked ! are critical for safety.

Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	
		ELLANEOUS *******		<u> </u>		
	1-452-032-00 1-452-094-00 1-453-169-11	COIL, DEGAUSSING MAGNET, DISK; 10MM Ø MAGNET, ROTATABLE DIST TRANSFORMER ASSY, FLYT SPEAKER (5x11CM)				
		SWITCE, PUSH (AC POWE TUNER/VIF (AEP) (KV-29C1A/29C1D/29 29C1R)				
	1-693-340-11	TUNER/VIF (FR) (KV-29	C1B)			
	J ₃ 1-751-680-11	CORD, POWER (WITH NOI: 2.5A/250V (KV-29C1A/29C1D/2				
	± 1-690-270-21		NECTOR)	The state of the s		
V901	1 8-453-005-11	DEFLECTION YOKE (Y29G NECK ASSY, PICTURE TU PICTURE TUBE (SD-269) ITC	BE (NA-297-M)			
*****	******	*******	******			
		SSORIES AND PACKING MA				
	4-203-366-41	MANUAL, INSTRUCTION (KV-29C1A)(ITALIAN)			
		MANUAL, INSTRUCTION (• n u i u i u i u i u i u i u i u i u i u		
	4-203-366-11	MANUAL, INSTRUCTION ((DUTCH/GREEK/ENGLI	KV-29C1D) SH/GERMAN/TURKISH)			
	4-203-372-11	MANUAL, INSTRUCTION (KV-29C1D) (ENGLISH/DUTCH)			
		MANUAL, INSTRUCTION (MANUAL, INSTRUCTION ((PORTUGUESE/FINNISH SWEDISH)	KV-29C1E) (SPANISH) KV-29C1E)			
	4-203-366-91	MANUAL, INSTRUCTION ((CZECH/ENGLISH RUSSIAN)	KV-29C1K/29C1R) /POLISH/BULGARIAN/			
	*4-203-334-01 *4-203-335-01	INDIVIDUAL CARTON CUSHION (LOWER) (ASSY CUSHION (UPPER) (ASSY BAG, PROTECTION	r) ')			
		OTE COMMANDER				
	1-473-693-11	COMMANDER, STANDARD T	YPE (RM-839)			